5302

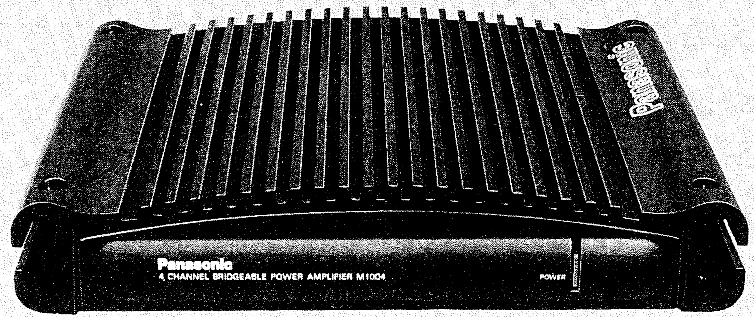
ORDER NO.APD9012976

Service Manual

AUTO PRODUCTS

CY-M654EN
CY-M1004EN

4 Channel Bridgeable Power Amplifier



SPECIFICATIONS

Power Supply	DC 12V (11-16V) Test Voltage 14.4V Negative Ground
Current Consumption	CY-M654EN; 23A (at 40W×4) CY-M1004EN; (at 60W×4)
Speaker impedance	4 ohms
Power Output	CY-M654EN 2-CH, 100W×2 (1,000Hz, 0.1%, 4 Ω) 3-CH, 40W×2+100W (1,000Hz, 0.1%, 4Ω) 4-CH, 40W×4 (1,0000Hz, 0.1%, 4 Ω) CY-M1004EN 2-CH, 120W×2 (1,0000Hz, 0.1%, 4 Ω) 3-CH, 60W×2+120W (1,0000Hz, 0.1%, 4 Ω) 4-CH, 60W×4 (1,0000Hz, 0.1%, 4 Ω)
Maximum Power Output	CY-M654EN 2-CH, 130W×2 3-CH, 65W×2+130W 4-CH, 65W×4 CY-M1004EN 2-CH, 200W×2 3-CH, 100W×2+200W 4-CH, 100W×4
Total Harmonic Distortion	CY-M654EN 0.005% (1,000Hz, at 20W) CY-M1004EN 0.005% (1,000Hz, at 40W)
Signal to Noise Ratio	CY-M654EN 100dB (IHF, A) CY-M1004EN 102dB (IHF, A)
Frequency Response	5Hz-100,000Hz
Damping Factor	60 (4 ohms)
Input Sensitivity	200mV
Input Impedance	More than 10 kohms
Dimensions(W×H×D)	CY-M654EN 300(W)×57(H)×230mm(D) CY-M1004EN 300(W)×57(H)×250mm(D)
Weight	CY-M654EN 3.6kg. CY-M1004EN 3.9kg.

Note: Specifications and the design are subject to possible modification without notice due to improvements.

TECHNISCHE DATEN

Spannungsversorgung	12V (11V-16V) Gleichspannung, Testspannung 14.4V, negative Erdung
Leistungsaufnahme	CY-M654EN; 23A (bei 40W×4) CY-M1004EN; 34A (bei 60W×4)
Lautsprecherimpedanz	4 Ω
Ausgang	CY-M654EN 2-CH, 100W×2 (1,000Hz, 0.1%, 4 Ω) 3-CH, 40W×2+100W (1,000Hz, 0.1%, 4 Ω) 4-CH, 40W×4 (1,000Hz, 0.1%, 4 Ω) CY-M1004EN 2-CH, 120W×2 (1,000Hz, 0.1%, 4 Ω) 3-CH, 60W×2+120W (1,000Hz, 0.1%, 4 Ω) 4-CH, 60W×4 (1,000Hz, 0.1 4 Ω)
Höchstausgangsleistung	CY-M654EN 2-CH, 130W×2 3-CH, 65W×2+130W 4-CH, 65W×4 CY-M1004EN 2-CH, 200W×2 3-CH, 100W×2+200W 4-CH, 100W×4
Gesamtklirrfaktor	CY-M654EN 0.005% (1,000Hz, bei 20W) CY-M1004EN 0.005% (1,000Hz, bei 40W)
Signal/Rauschabstand	CY-M654EN 100dB (IHF, A) CY-M1004EN 102dB (IHF, A)
Frequenzgang	5Hz-100,000Hz
Dämpfungsfaktor	60 (4 Ω)
Eingangsempfindlichkeit	200mV
Eingangsimpedanz	über 10 kΩ
Abmessungen	CY-M654EN 300(B)×57(H)×230mm(T) CY-M1004EN 300(B)×57(H)×250mm(T)
Gewicht	CY-M654EN 3.6kg. CY-M1004EN 3.9kg.

Hinweis: Bei Konstruktion und technischen Daten Änderungen vorbehalten

Panasonic

5302

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Fuse

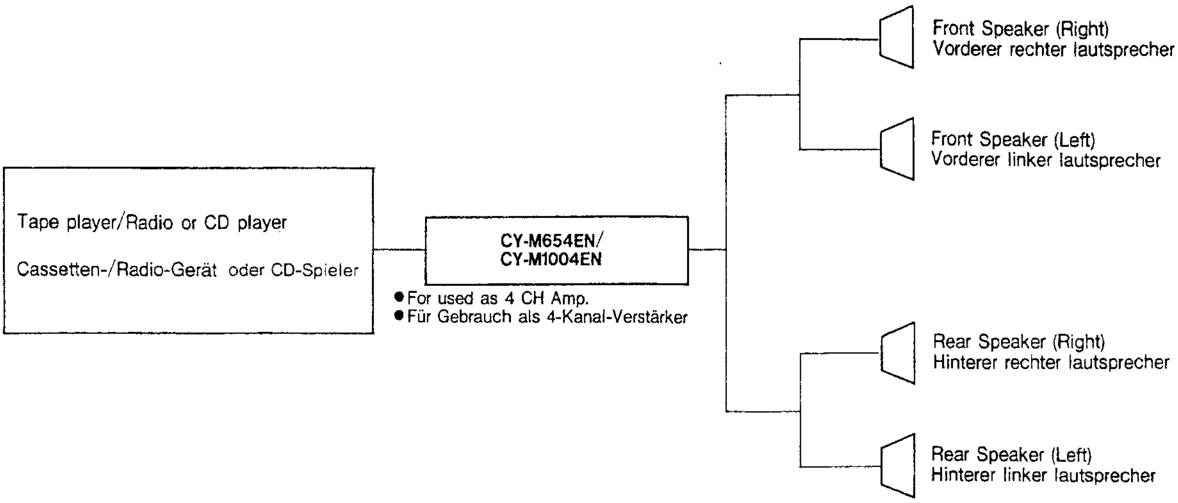
Be sure to use a fuse of the specified rating (3A, 20A, 30A) when replacing a blown fuse. Fuses with higher capacity ratings, use of any substitute, or connection without a fuse may result in a fire hazard or damage to the unit.

Sicherung

Als Ersatz für eine durchgebrannte Sicherung unbedingt eine Sicherung mit dem vorgeschriebenen Nennwert (3A, 20A, 30A) verwenden. Durch den Gebrauch von Sicherungen mit höheren Nennwerten, von Sicherungsersatzteilen oder durch den Anschluß ohne Gebrauch einer Sicherung kann ein Brand oder Geräteschaden verursacht werden. Falls die Austauschsicherung ebenfalls durchbrennt.

System Diagram ⁄ Systemschema

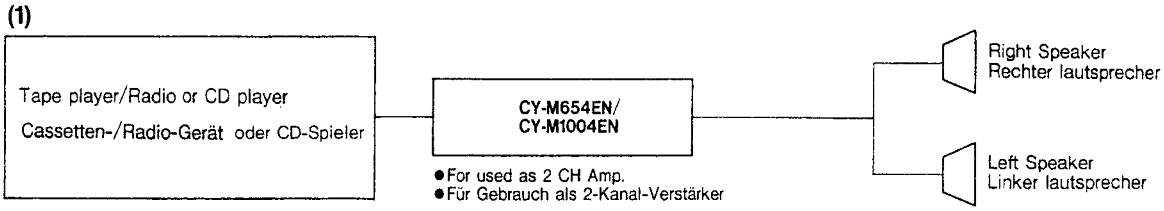
Standard Example:
Standard-Beispiel:


Tape player/Radio or CD player
Cassetten-/Radio-Gerät oder CD-Spieler
CY-M654EN/
CY-M1004EN
Front Speaker (Right)
Vorderer rechter lautsprecher
Front Speaker (Left)
Vorderer linker lautsprecher
Rear Speaker (Right)
Hinterer rechter lautsprecher
Rear Speaker (Left)
Hinterer linker lautsprecher

- ●For used as 4 CH Amp.
- ●Für Gebrauch als 4-Kanal-Verstärker

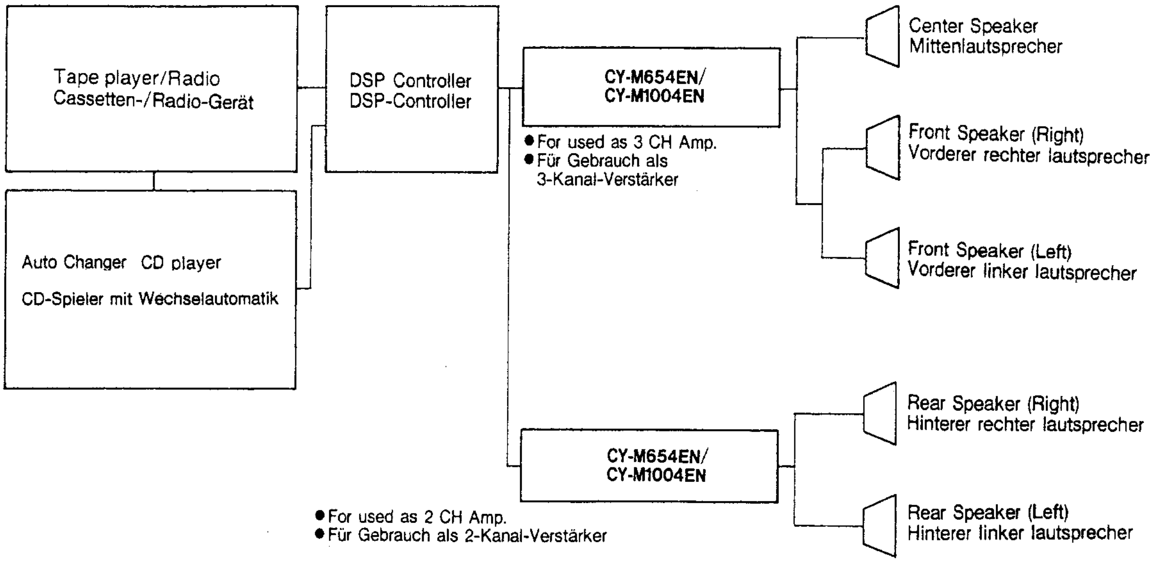
Other Examples:
Weitere Beispiele:

(1)


Tape player/Radio or CD player
Cassetten-/Radio-Gerät oder CD-Spieler
CY-M654EN/
CY-M1004EN
Right Speaker
Rechter lautsprecher
Left Speaker
Linker lautsprecher

- ●For used as 2 CH Amp.
- ●Für Gebrauch als 2-Kanal-Verstärker

(2)


Tape player/Radio
Cassetten-/Radio-Gerät
Auto Changer CD player
CD-Spieler mit Wechselautomatik
DSP Controller
DSP-Controller
CY-M654EN/
CY-M1004EN
Center Speaker
Mittenlautsprecher
Front Speaker (Right)
Vorderer rechter lautsprecher
Front Speaker (Left)
Vorderer linker lautsprecher
CY-M654EN/
CY-M1004EN
Rear Speaker (Right)
Hinterer rechter lautsprecher
Rear Speaker (Left)
Hinterer linker lautsprecher

- ●For used as 3 CH Amp.
- ●Für Gebrauch als 3-Kanal-Verstärker

- ●For used as 2 CH Amp.
- ●Für Gebrauch als 2-Kanal-Verstärker

Installation

- This equipment,if possible, should be installed by a professional installer.
- The speakers to be used with the amplifier should be able to handle more than 130W for CY-M654EN and more than 200W for CY-M1004EN. Use of speakers with small input ratings can result in damage to the speakers.
- Since the 4-Channel Bridgeable Power Amplifier has a very large output, the unit should be installed in the trunk of car.
  - The speaker cords and the power amplifier unit shoud be kept away from the antenna and antenna extension cord.
  - In case of using the RCA cords, they should be kept away from the speaker cords.

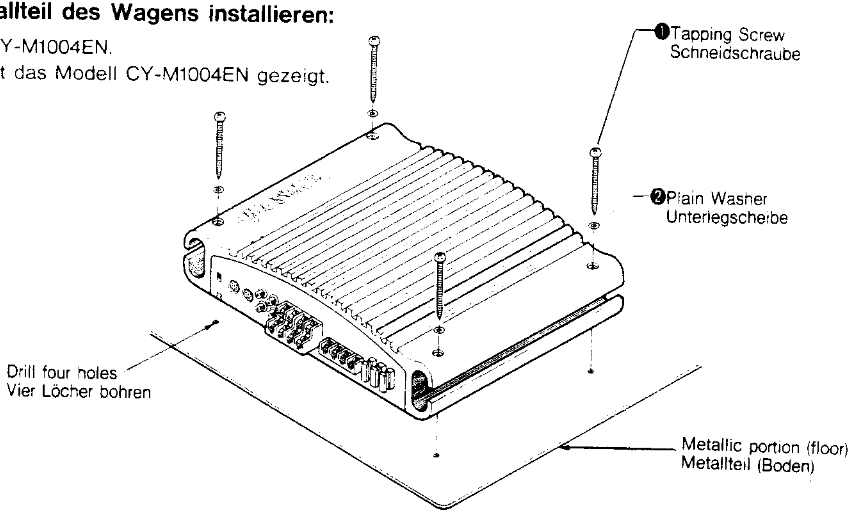
Einbau

- Diese Ausrüstung sollte von einem Fachmann eingebaut werden.
- Die mit diesem Verstärker zu verwendenden Lautsprecher sollen beim Modell CY-M654EN eine Belastbarkeit von mindestens 130 W und beim Modell CY-M1004EN eine Leistung von mindestens 200 W haben. Lautsprecher mit zu geringer Belastbarkeit können beschädigt werden.
- Da dieser Leistungsverstärker über eine sehr hohe Ausgangsleistung verfügt, sollte er im Kofferraum des wagens installiert werden.

  - Lautsprecherkabel und Leistungsverstärker sind von Antenne und Antennenverlängerungskabel entfernt zu halten.
  - Bei Gebrauch von RCA-Kabeln diese von den Lautsprecherkabeln entfernt halten.

Installing the unit on a metallic portion of the car:
Das Gerät an einem Metallteil des Wagens installieren:

- All illustrations show CY-M1004EN.
- In allen Abbildungen ist das Modell CY-M1004EN gezeigt.



Supplied Hardwares

No.	Description	Q'ty.
❶	Tapping Screw (5mmϕ x 65mm)	4
❷	Plain Washer (5mmϕ)	4

Mitgelieferte Befestigungsteile

Nr.	Bezeichnung	Anzahl
❶	Schneidschraube (5mmϕ x 65mm)	4
❷	Unterlegscheibe (5mmϕ)	4

Electrical Connection

Before wiring:

- This unit is to be used only in a 12-Volt, DC battery system (Car) with negative ground.
- Disconnect the cable from the negative (−) battery terminal (see note below).

Note:

For installation in cars with trip or navigational computers, all electronic memory settings previously registered in the computer will be lost when the battery terminal is disconnected. For this type of car, battery should not be disconnected. Therefore, extra care should be taken to prevent short circuiting.

- Please carefully read the operating and installation instructions of the respective equipment before connecting if to this unit.

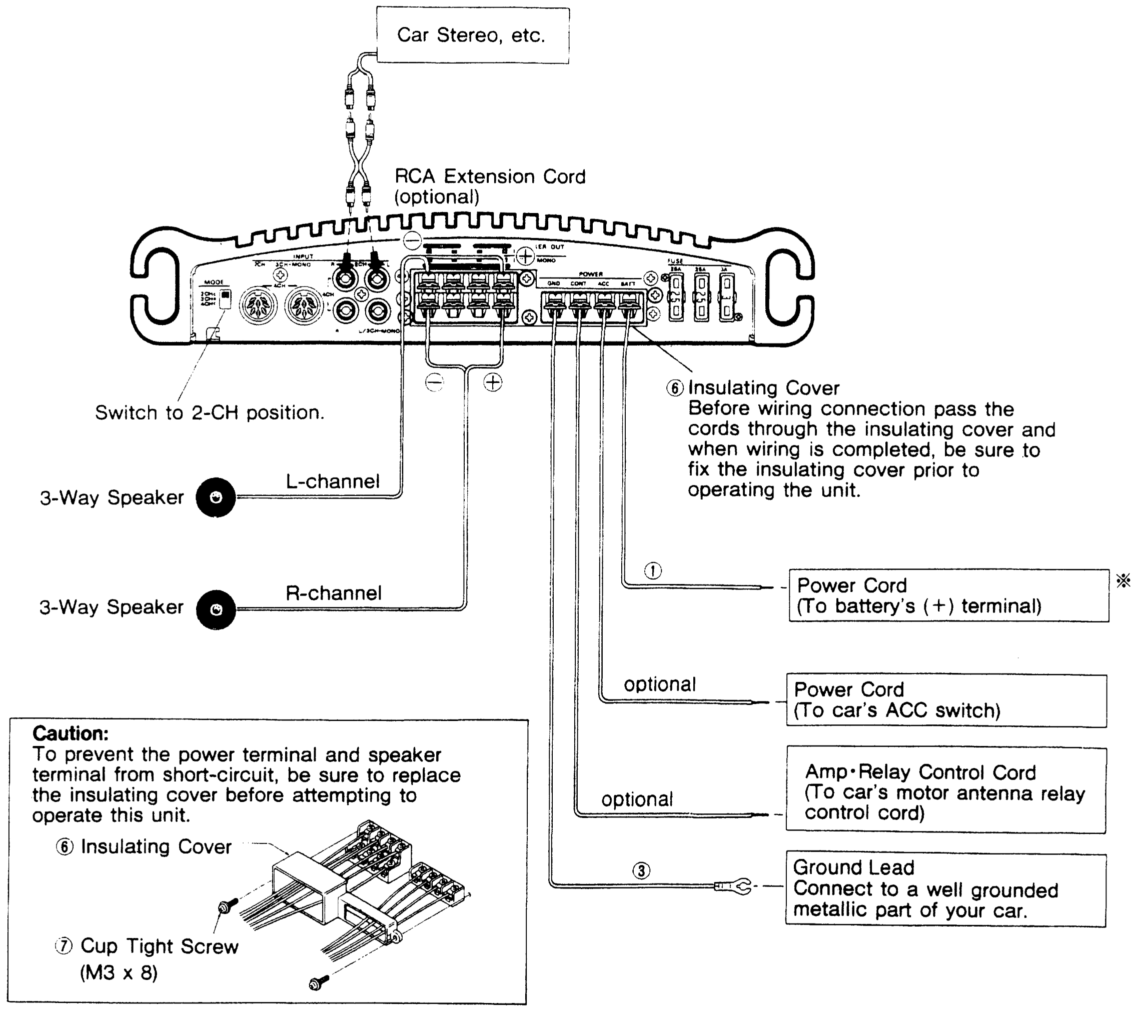
Wiring Kit

No.	Description	Q'ty.
1	Power Cord (BATT) (Yellow)	1
2	Power Extension Cord (Yellow) (Fuse 30A) (CY-M654EN) (Fusible Link) (CY-M1004EN)	1
3	Ground Lead (Black)	1
4	Spring Connector (Red) (CY-M1004EN) Spring Connector (Yellow) (CY-M654EN)	1

No.	Description	Q'ty.
⑤	Grommet for Power Cord	1
⑥	Insulating Cover	1
⑦	Cup Tight Screw (M3 × 8)	2

Speaker Connection I

For 2-Channel System:

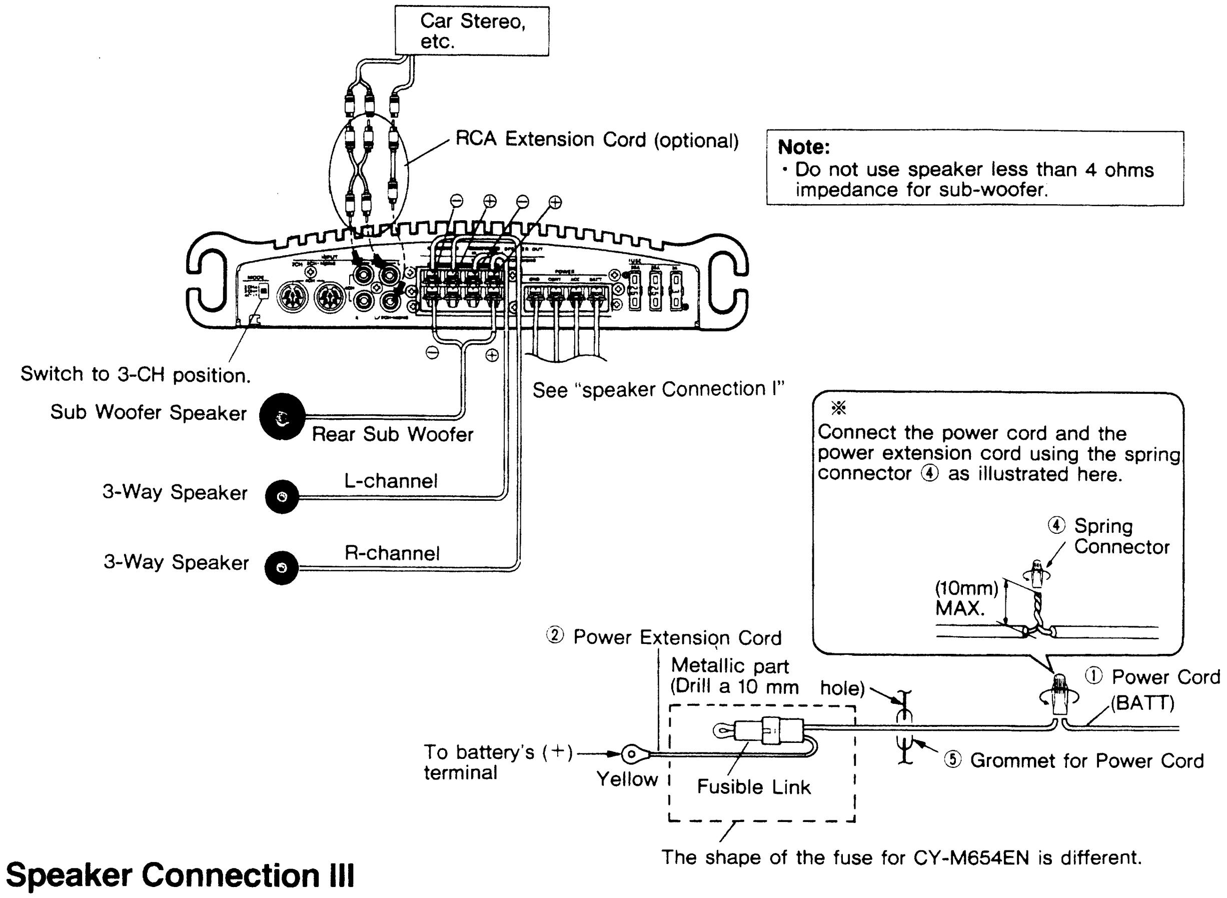

Car Stereo, etc.
RCA Extension Cord (optional)
Switch to 2-CH position.
⊖ ⊕
3-Way Speaker
L-channel
3-Way Speaker
R-channel
⑥ Insulating Cover
①
Power Cord (To battery's (+) terminal)
※
optional
Power Cord (To car's ACC switch)
optional
Amp·Relay Control Cord (To car's motor antenna relay control cord)
③
Ground Lead Connect to a well grounded metallic part of your car.
⑥ Insulating Cover
⑦ Cup Tight Screw (M3 x 8)

⑥ Insulating Cover
Before wiring connection pass the cords through the insulating cover and when wiring is completed, be sure to fix the insulating cover prior to operating the unit.

Caution:
To prevent the power terminal and speaker terminal from short-circuit, be sure to replace the insulating cover before attempting to operate this unit.

Speaker Connection II

For 3-Channel System:


Car Stereo, etc.
RCA Extension Cord (optional)
⊖ ⊕ ⊖ ⊕
⊖ ⊕
Switch to 3-CH position.
Sub Woofer Speaker
Rear Sub Woofer
See "speaker Connection I"
3-Way Speaker
L-channel
3-Way Speaker
R-channel
④ Spring Connector
(10mm) MAX.
② Power Extension Cord
Metallic part (Drill a 10 mm hole)
① Power Cord (BATT)
To battery's (+) terminal
Yellow
Fusible Link
⑤ Grommet for Power Cord

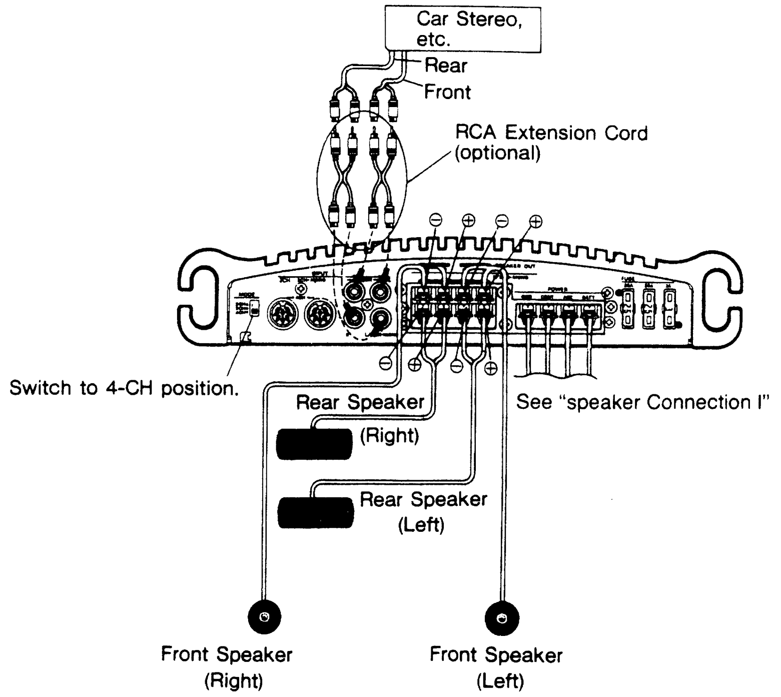
Note:
- Do not use speaker less than 4 ohms impedance for sub-woofer.

※
Connect the power cord and the power extension cord using the spring connector ④ as illustrated here.

The shape of the fuse for CY-M654EN is different.

Speaker Connection III

For 4-Channel System:

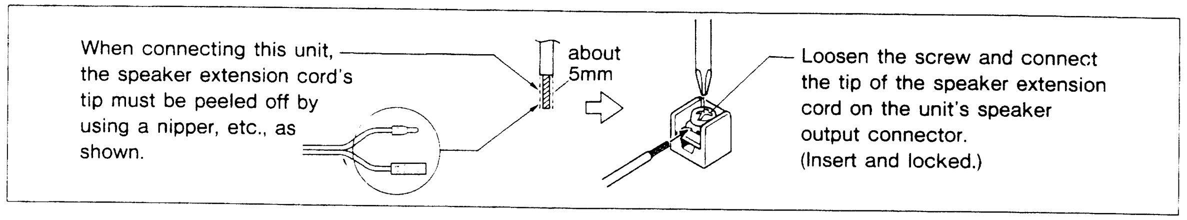

Car Stereo, etc.
Rear
Front
RCA Extension Cord (optional)
⊖ ⊕ ⊖ ⊕
⊖ ⊕ ⊖ ⊕
Switch to 4-CH position.
Rear Speaker (Right)
Rear Speaker (Left)
See "speaker Connection I"
Front Speaker (Right)
Front Speaker (Left)

Operation Procedures

For your driving safety, keep the volume level low enough to be aware of road and traffic conditions.

Precautions:

- This unit is designed for used with a Panasonic tape player/radio model.
- This unit is automatically switched on and off if the power switch of the tape player/radio is turned on and off. The power indicator lights up when the tape player/radio is turned on.
- Due to its large output, the current consumption of the unit is also large; therefore, the unit should not be used with the engine stopped. Otherwise, the battery may deteriorate so that starting of the engine may become impossible.
- When using this unit, the speaker extension cord (supplied with the speaker) must be worked out as shown in the illustration below;

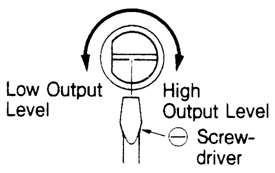

When connecting this unit, the speaker extension cord's tip must be peeled off by using a nipper, etc., as shown.

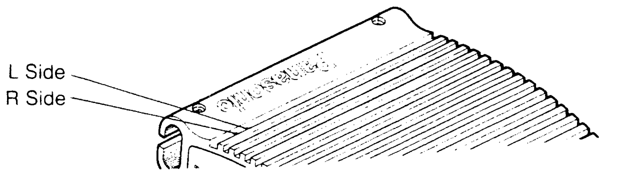
Loosen the screw and connect the tip of the speaker extension cord on the unit's speaker output connector. (Insert and locked.)

■ Level Adjustment:

In some instances, the acoustical output from each speaker may not be balanced properly depending upon the type of speakers or tape player/radio unit to be used. If this occurs, try to adjust the volume level by turning the level adjust volume to the left or right until the output from each amplifier is balanced by using a flat-head screwdriver as shown in the illustration. The effects are described in the table below.
At first, the level is set at –3dB against the maximum level.

Level Adjust Volume
(Top side of the unit)





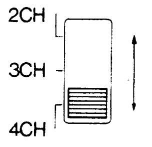
Mode / ADJ Volume	L Side	R Side
2 CH	Increases (decreases) volume of the left side.	Increases (decreases) volume of the right side.
3 CH	Increases (decreases) volume of the left and right sides simultaneously.	Increases (decreases) volume of the sub-woofer.
4 CH	Increases (decreases) volume of the front's left and right sides simultaneously.	Increases (decreases) volume of the rear's left and right sides simultaneously.

■ Mode Selection:

This mode selector switch has three positions and they are explained as follows: For speaker connection, refer to illustrations below.

Mode / Model	CY-M654EN's output	CY-M1004EN's output
2 CH	130W x 2	200W x 2
3 CH	65W x 2+130W	100W x 2+200W
4 CH	65W x 4	100W x 4

Mode Selector Switch



Caution: The mode selector switch and speaker cord's connection must be operated only when the power to the unit is switched off.

Elektrischer Anschluß

Vorsichtsmaaregeln für die Installation:

- Dieses System kann nur in Verbindung mit einer 12-Volt-Gleichstrom-Batterieanlage (Auto) mit negativer Erdung verwendet werden.
- Vor dem Einbauen und Verkabeln das Massekabel (–) von der Batterie abklemmen.

Hinweis:
Bei mit Navigations- oder anderen Computern ausgestatteten Fahrzeugen können Computer-Speicherinhalte verlorengehen, wenn die Batterie abgeklemmt wird. Bei derartig ausgestatteten Fahrzeugen sollte die Batterie nicht abgetrennt werden. In diesem Fall ist insbesondere darauf zu achten, daa kein Kurzschlua verursacht wird.

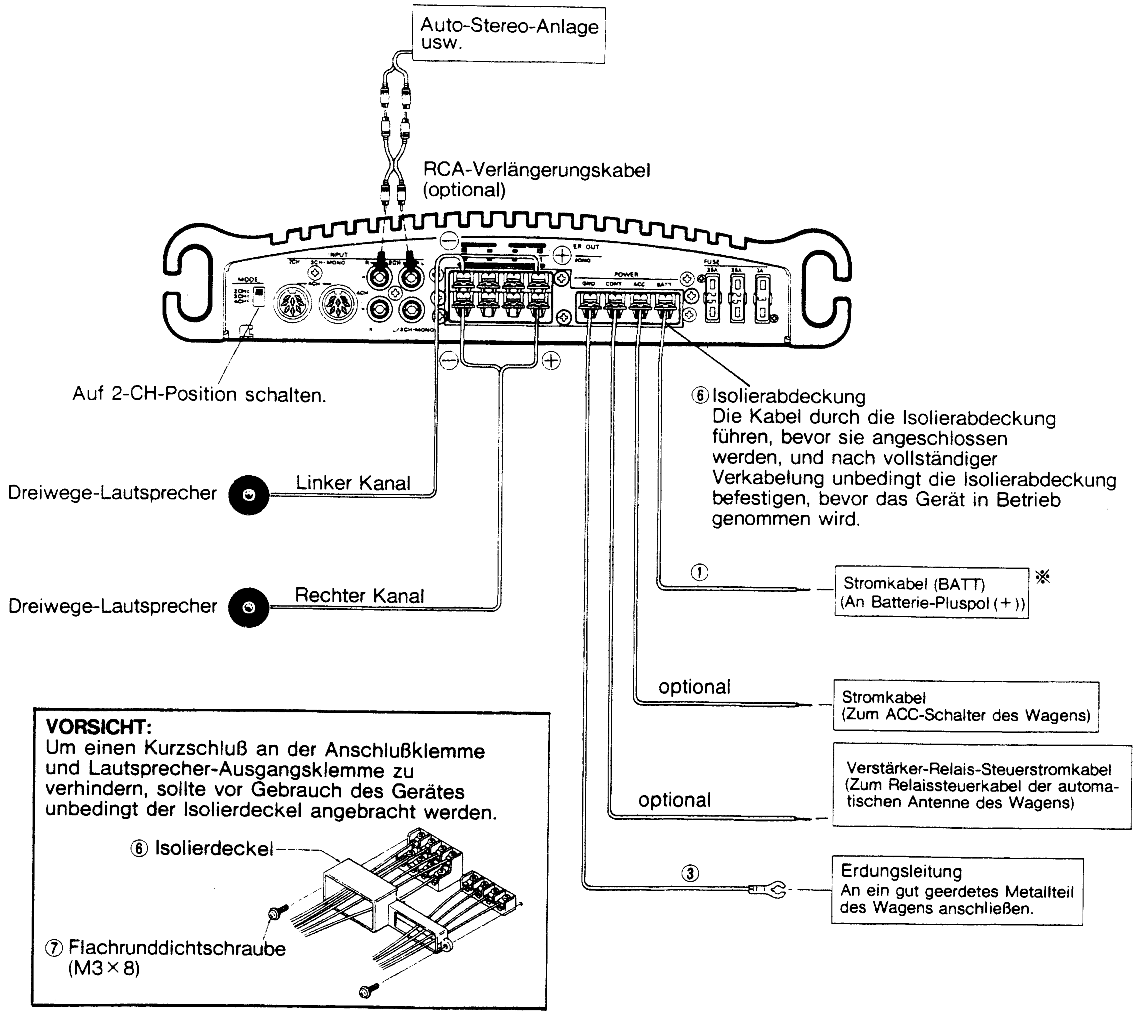
- Bei der Verkabelung genau gemäß der Bedienungsanleitung des jeweiligen Geräts vorgehen.

Verkabelungssatz

Nr.	Bezeichnung	Anzahl
①	Stromkabel (BATT) (Gelb)	1
②	Stromverlängerungskabel (Gelb) (Sicherung 30A) (CY-M654EN) (Schmelzverbindung) (CY-M1004EN)	1
③	Erdungsleitung (Schwarz)	1
④	Federsteckverbinder (Rot) (CY-M1004EN) Federsteckverbinder (Gelb) (CY-M654EN)	1
⑤	Tülle für Stromkabel	1
⑥	Isolierabdeckung	1
⑦	Flachrunddichtschraube (M3 × 8)	2

Lautsprecheranschluß I

Für 2-Kanal-System:



⑥ Isolierabdeckung
Die Kabel durch die Isolierabdeckung führen, bevor sie angeschlossen werden, und nach vollständiger Verkabelung unbedingt die Isolierabdeckung befestigen, bevor das Gerät in Betrieb genommen wird.

Stromkabel (BATT) (An Batterie-Pluspol (+)) ※

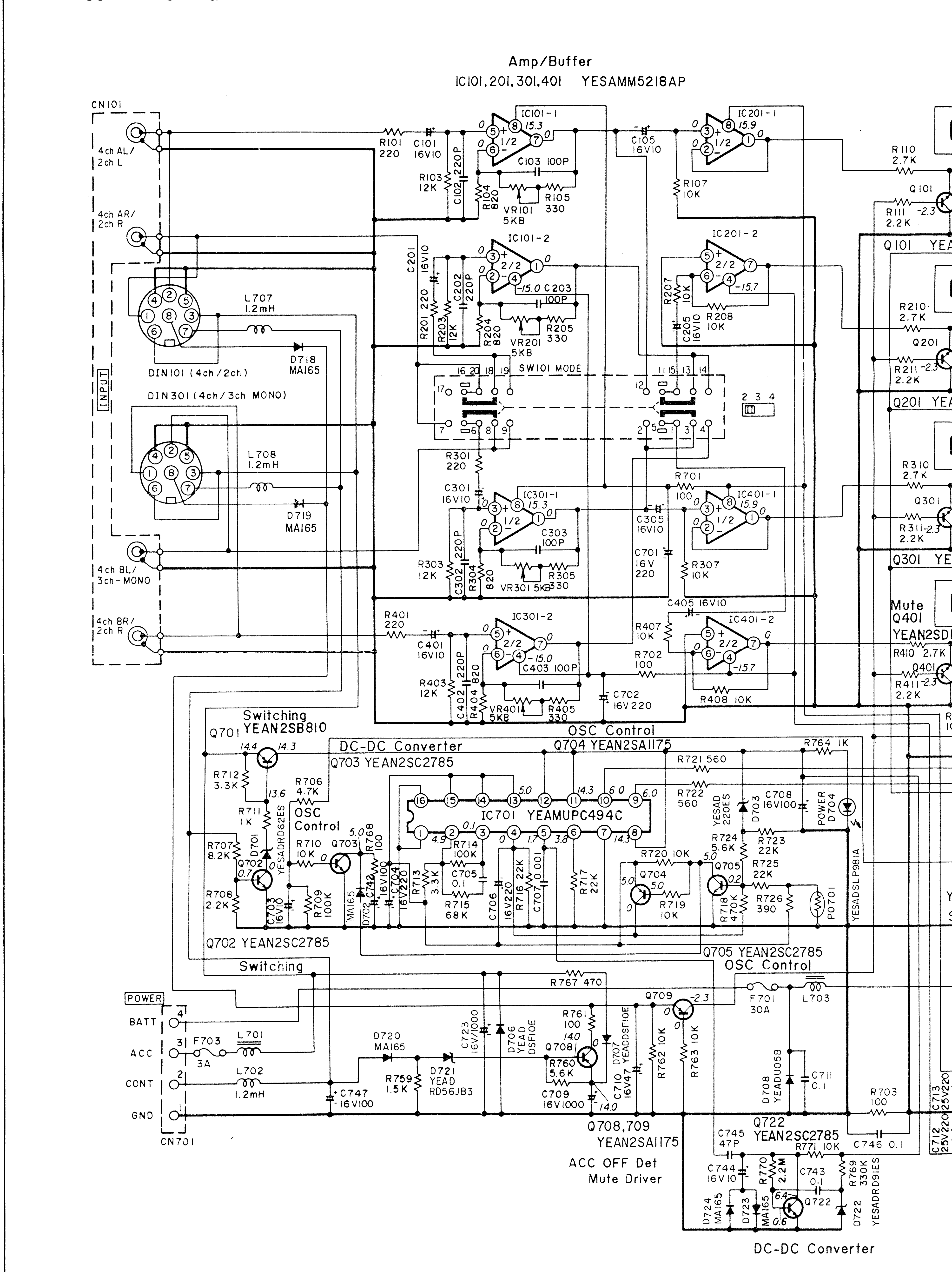
Stromkabel (Zum ACC-Schalter des Wagens)

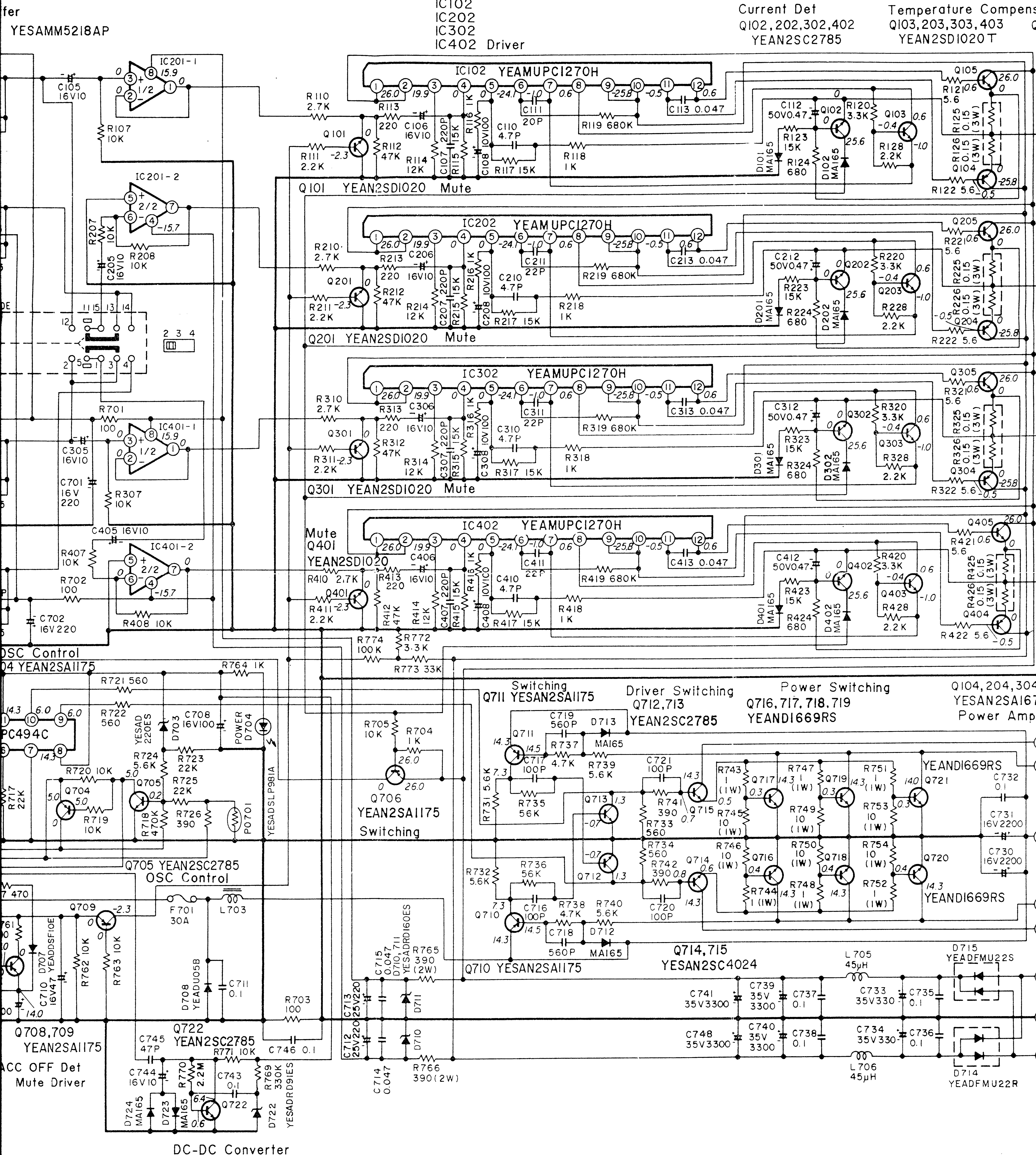
Verstärker-Relais-Steuerstromkabel (Zum Relaissteuerkabel der automatischen Antenne des Wagens)

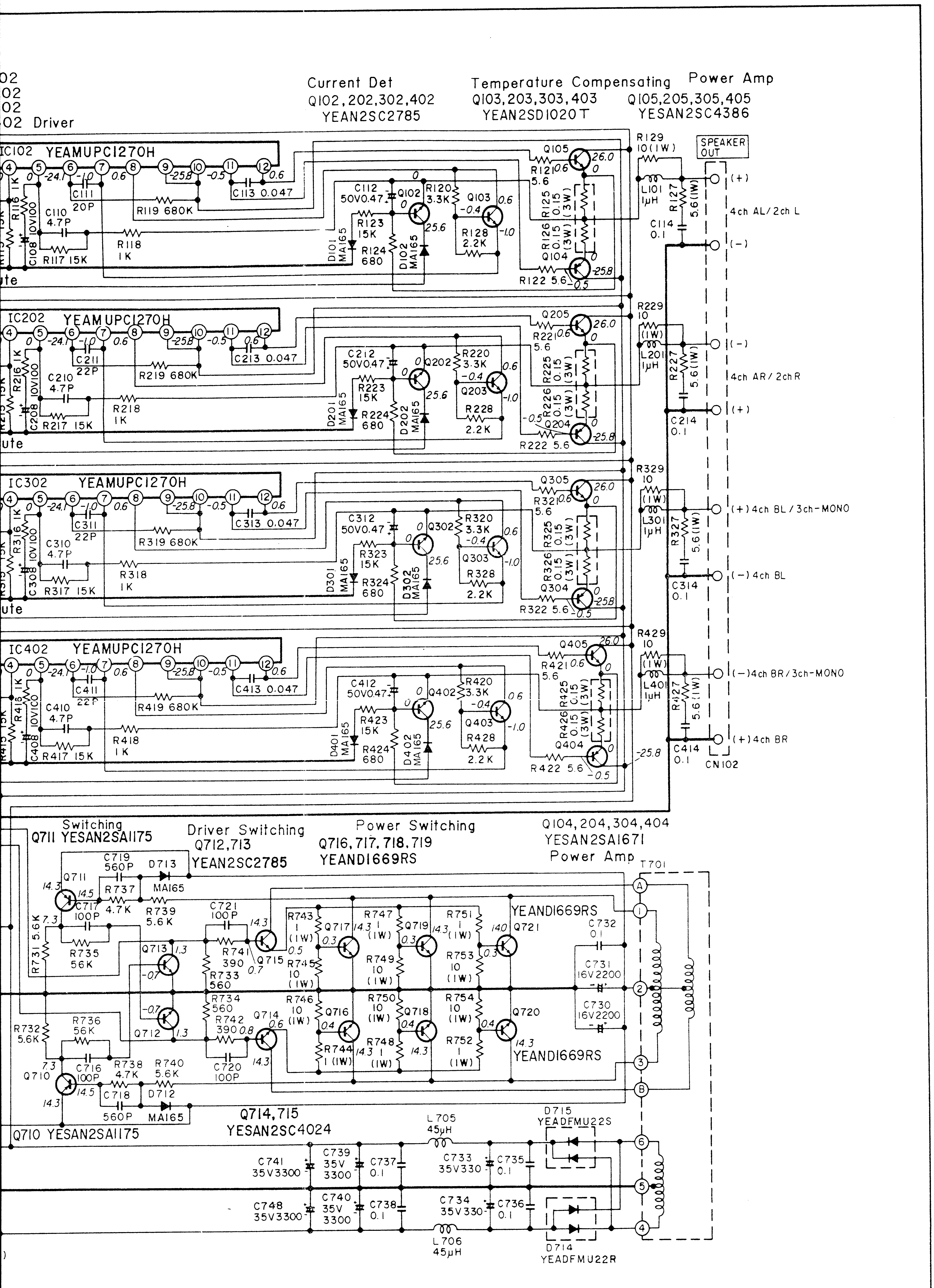
Erdungsleitung
An ein gut geerdetes Metallteil des Wagens anschließen.

VORSICHT:
Um einen Kurzschluß an der Anschlußklemme und Lautsprecher-Ausgangsklemme zu verhindern, sollte vor Gebrauch des Gerätes unbedingt der Isolierdeckel angebracht werden.

SCHEMATIC DIAGRAM/SCHEMATISCHES DIAGRAMM — MODEL CY-M654EN


Amp/Buffer
IC101,201,301,401 YESAMM5218AP
CN101
4ch AL/ 2ch L
4ch AR/ 2ch R
INPUT
DIN101 (4ch/2ch)
DIN301 (4ch/3ch MONO)
L707 1.2mH
L708 1.2mH
D718 MA165
D719 MA165
4ch BL/ 3ch-MONO
4ch BR/ 2ch R
IC101-1
IC101-2
IC201-1
IC201-2
IC301-1
IC301-2
IC401-1
IC401-2
R101 220
C101 16V10
C102 220P
R103 12K
R104 820
C103 100P
VR101 5KB
R105 330
C105 16V10
R107 10K
C201 16V10
R201 220
C202 220P
R203 12K
R204 820
C203 100P
VR201 5KB
R205 330
R207 10K
C205 16V10
R208 10K
SW101 MODE
2 3 4
R301 220
C301 16V10
C302 220P
R303 12K
R304 820
C303 100P
VR301 5KB
R305 330
R701 100
C305 16V10
C701 16V 220
R307 10K
C405 16V10
R401 220
C401 16V10
C402 220P
R403 12K
R404 820
C403 100P
VR401 5KB
R405 330
R407 10K
R702 100
C702 16V 220
R408 10K
R110 2.7K
Q101
R111 2.2K
Q101 YEA
R210 2.7K
Q201
R211 2.2K
Q201 YEA
R310 2.7K
Q301
R311 2.2K
Q301 YE
Mute
Q401
YEAN2SD
R410 2.7K
Q401
R411 2.2K
Switching
Q701 YEAN2SB810
DC-DC Converter
Q703 YEAN2SC2785
OSC Control
Q704 YEAN2SA1175
R764 1K
R721 560
R722 560
YESAD 220ES
D703
C708 16V100
POWER D704
YESADSLP981A
R712 3.3K
R706 4.7K
R711 1K
D701 YESADRD62ES
OSC Control
IC701 YEAMUPC494C
R707 8.2K
Q702
R710 10K
Q703
R768 100
R714 100K
R713 3.3K
C705 0.1
R715 68K
C706 16V220
R716 22K
C707 0.001
R717 22K
R720 10K
Q704
R719 10K
Q705
R723 22K
R725 22K
R718 470K
R726 390
P0701
R708 2.2K
C703 16V10
R709 100K
D702 MA165
C742
C704 16V100
16V220
Q702 YEAN2SC2785
Q705 YEAN2SC2785
OSC Control
Switching
R767 470
POWER
BATT
ACC
CONT
GND
CN701
F703 3A
L701
L702 1.2mH
C747 16V100
D720 MA165
R759 1.5K
D721 YEAD RD56JB3
C723 16V1000
D706 YEAD DSF10E
R761 100
Q708
R760 5.6K
C709 16V1000
D707 YEADDSF10E
C710 16V47
R762 10K
Q709
R763 10K
Q708,709 YEAN2SA1175
ACC OFF Det
Mute Driver
F701 30A
L703
D708 YEADU05B
C711 0.1
R703 100
C713 25V220
C712 25V220
C745 47P
Q722 YEAN2SC2785
R771 10K
C746 0.1
C744 16V10
R770 2.2M
C743 0.1
R769 330K
D724 MA165
D723 MA165
Q722
D722 YESADRD91ES
DC-DC Converter

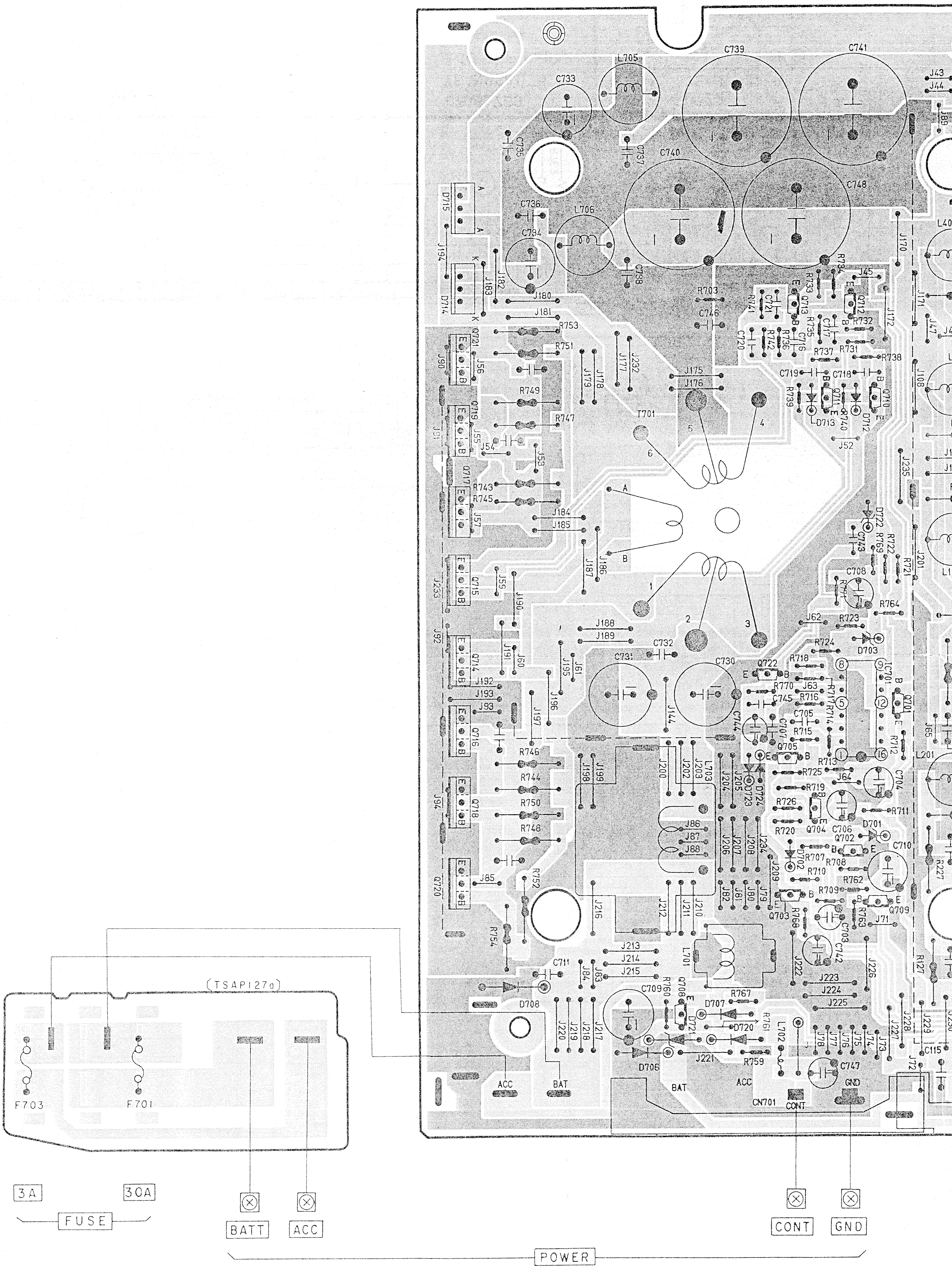

fer
YESAMM5218AP
IC102
IC202
IC302
IC402 Driver
Current Det
Q102,202,302,402
YEAN2SC2785
Temperature Compens
Q103,203,303,403
YEAN2SD1020T
IC201-1
IC201-2
C105 16V10
R107 10K
R207 10K
R208 10K
C205 16V10
R110 2.7K
R111 2.2K
R112 47K
R113 220
R114 12K
C106 16V10
C107 220P
R115 15K
R116 1K
C108 10V100
C110 4.7P
C111 20P
R117 15K
R118 1K
R119 680K
C113 0.047
IC102 YEAMUPC1270H
Q101
Q101 YEAN2SD1020 Mute
C112 50V0.47
Q102
R120 3.3K
Q103
R123 15K
R124 680
R128 2.2K
D101 MA165
D102 MA165
Q105
R121 5.6
R125 0.15 (3W)
R126 0.15 (3W)
Q104
R122 5.6
IC202 YEAMUPC1270H
R210 2.7K
R211 2.2K
R212 47K
R213 220
R214 12K
C206 16V10
C207 220P
R215 15K
R216 1K
C208 10V100
C210 4.7P
C211 22P
R217 15K
R218 1K
R219 680K
C213 0.047
Q201
Q201 YEAN2SD1020 Mute
C212 50V0.47
Q202
R220 3.3K
Q203
R223 15K
R224 680
R228 2.2K
D201 MA165
D202 MA165
Q205
R221 5.6
R225 0.15 (3W)
R226 0.15 (3W)
Q204
R222 5.6
IC302 YEAMUPC1270H
R310 2.7K
R311 2.2K
R312 47K
R313 220
R314 12K
C306 16V10
C307 220P
R315 15K
R316 1K
C308 10V100
C310 4.7P
C311 22P
R317 15K
R318 1K
R319 680K
C313 0.047
Q301
Q301 YEAN2SD1020 Mute
C312 50V0.47
Q302
R320 3.3K
Q303
R323 15K
R324 680
R328 2.2K
D301 MA165
D302 MA165
Q305
R321 5.6
R325 0.15 (3W)
R326 0.15 (3W)
Q304
R322 5.6
IC402 YEAMUPC1270H
Mute Q401 YEAN2SD1020
R410 2.7K
R411 2.2K
R412 47K
R413 220
R414 12K
C406 16V10
C407 220P
R415 15K
R416 1K
C408 10V100
C410 4.7P
C411 22P
R417 15K
R418 1K
R419 680K
C413 0.047
Q401
C412 50V0.47
Q402
R420 3.3K
Q403
R423 15K
R424 680
R428 2.2K
D401 MA165
D402 MA165
Q405
R421 5.6
R425 0.15 (3W)
R426 0.15 (3W)
Q404
R422 5.6
R701 100
IC401-1
C305 16V10
C701 16V 220
R307 10K
C405 16V10
IC401-2
R407 10K
R702 100
R408 10K
C702 16V220
OSC Control
04 YEAN2SA1175
R774 100K
R772 3.3K
R773 33K
R764 1K
R721 560
R722 560
PC494C
D703 YESAD220ES
C708 16V100
POWER D704
R724 5.6K
R723 22K
R725 22K
R726 390
R720 10K
Q704
Q705
R717 22K
R718 470K
R719 10K
P0701
YESADSLP981A
Q705 YEAN2SC2785
OSC Control
R705 10K
R704 1K
Q706
Q706 YEAN2SA1175 Switching
Switching
Q711 YESAN2SA1175
Driver Switching
Q712,713
YEAN2SC2785
Power Switching
Q716,717,718,719
YEAND1669RS
Q104,204,304
YESAN2SA167
Power Amp
C719 560P
D713 MA165
R737 4.7K
C717 100P
R739 5.6K
R731 5.6K
R735 56K
Q711
Q713
Q712
R732 5.6K
R736 56K
Q710
C716 100P
R738 4.7K
R740 5.6K
C718 560P
D712 MA165
C721 100P
R741 390
R733 560
R734 560
R742 390
C720 100P
Q715
Q714
R743 1 (1W)
R745 10 (1W)
R746 10 (1W)
R744 1 (1W)
Q717
Q716
R747 1 (1W)
R749 10 (1W)
R750 10 (1W)
R748 1 (1W)
Q719
Q718
R751 1 (1W)
R753 10 (1W)
R754 10 (1W)
R752 1 (1W)
Q721
Q720
YEAND1669RS
C732 0.1
C731 16V2200
C730 16V2200
Q714,715
YESAN2SC4024
Q710 YESAN2SA1175
7 470
Q709
F701 30A
L703
D707 YEADDSF10E
C710 16V47
R762 10K
R763 10K
D708 YEADU05B
C711 0.1
C715 0.047
D710,711 YESADRD160ES
R765 390 (2W)
C713 25V220
C712 25V220
D711
D710
C714 0.047
R766 390(2W)
R703 100
C746 0.1
Q708,709
YEAN2SA1175
ACC OFF Det
Mute Driver
Q722
YEAN2SC2785
C745 47P
R771 10K
C744 16V10
R770 2.2M
C743 0.1
R769 330K
D724 MA165
D723 MA165
D722 YESADRD91ES
DC-DC Converter
L705 45μH
C741 35V3300
C739 35V 3300
C737 0.1
C733 35V330
C735 0.1
D715 YEADFMU22S
C748 35V3300
C740 35V 3300
C738 0.1
C734 35V330
C736 0.1
L706 45μH
D714 YEADFMU22R


02
02
02
02 Driver
Current Det
Q102,202,302,402
YEAN2SC2785
Temperature Compensating
Q103,203,303,403
YEAN2SD1020T
Power Amp
Q105,205,305,405
YESAN2SC4386
IC102 YEAMUPC1270H
IC202 YEAMUPC1270H
IC302 YEAMUPC1270H
IC402 YEAMUPC1270H
C111 20P
C110 4.7P
R119 680K
R118 1K
R117 15K
C113 0.047
C112 50V0.47
R123 15K
R124 680
D101 MA165
D102 MA165
R120 3.3K
R128 2.2K
R121 5.6
R122 5.6
R125 0.15 (3W)
R126 0.15 (3W)
R129 10(1W)
L101 1μH
R127 5.6(1W)
C114 0.1
SPEAKER OUT
4ch AL/2ch L
R229 10 (1W)
L201 1μH
R227 5.6(1W)
C214 0.1
4ch AR/2ch R
R329 10 (1W)
L301 1μH
R327 5.6(1W)
C314 0.1
(+) 4ch BL/3ch-MONO
(−) 4ch BL
R429 10 (1W)
L401 1μH
R427 5.6(1W)
C414 0.1
(−) 4ch BR/3ch-MONO
(+) 4ch BR
CN102
Switching
Q711 YESAN2SA1175
Driver Switching
Q712,713
YEAN2SC2785
Power Switching
Q716,717,718,719
YEAND1669RS
Q104,204,304,404
YESAN2SA1671
Power Amp
T701
C719 560P
D713 MA165
R737 4.7K
R739 5.6K
C717 100P
R735 56K
R731 5.6K
C721 100P
R741 390
R733 560
R734 560
R742 390
C720 100P
R736 56K
R732 5.6K
C716 100P
R738 4.7K
R740 5.6K
C718 560P
D712 MA165
Q710 YESAN2SA1175
Q714,715
YESAN2SC4024
YEAND1669RS
C732 0.1
C731 16V2200
C730 16V2200
L705 45μH
L706 45μH
D715 YEADFMU22S
D714 YEADFMU22R
C741 35V3300
C739 35V 3300
C737 0.1
C733 35V330
C735 0.1
C748 35V3300
C740 35V 3300
C738 0.1
C734 35V330
C736 0.1

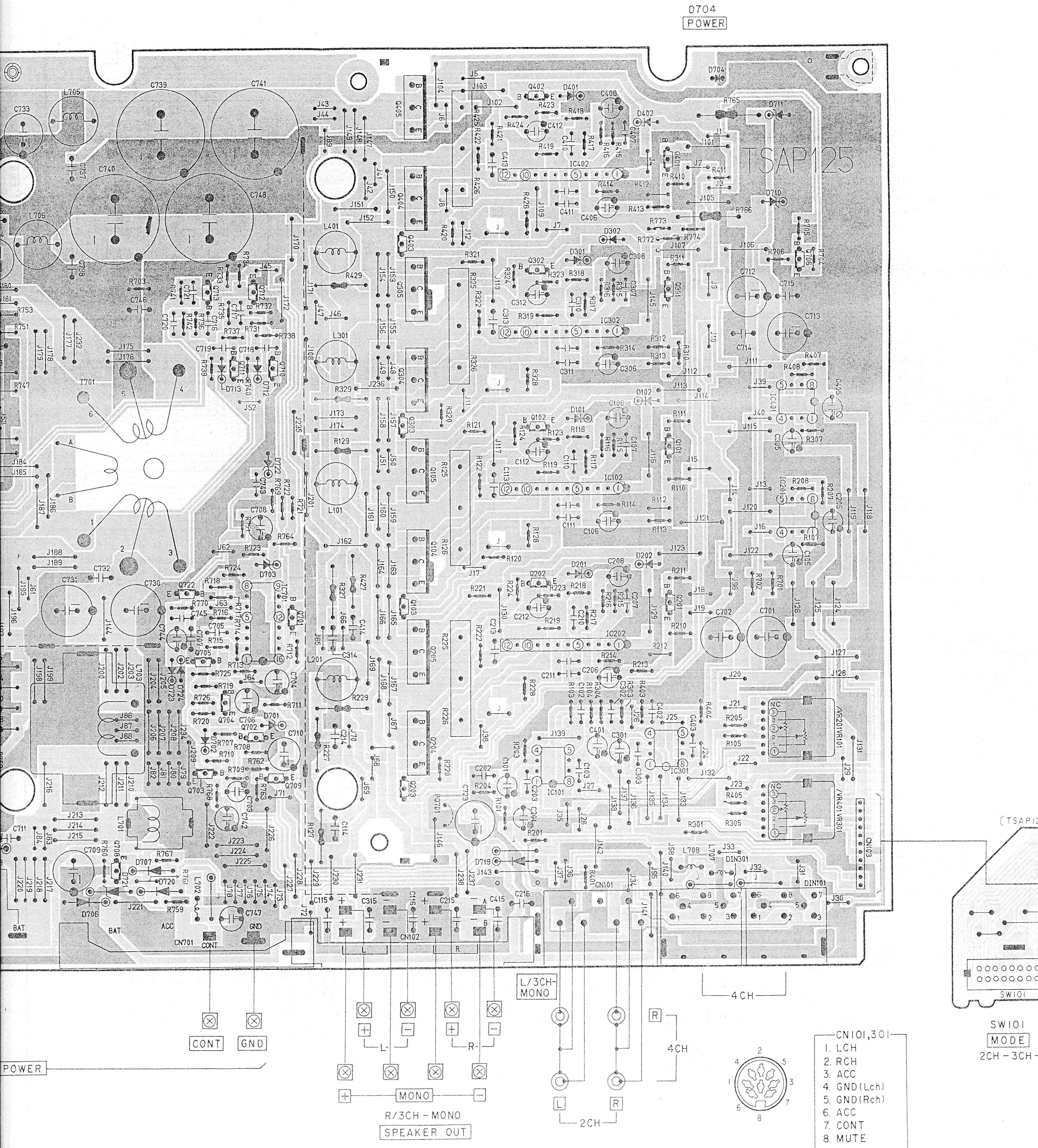
4 Channel Bridgeable Power Amplifier / 4-Kanal-Brückenleistungsverstärker

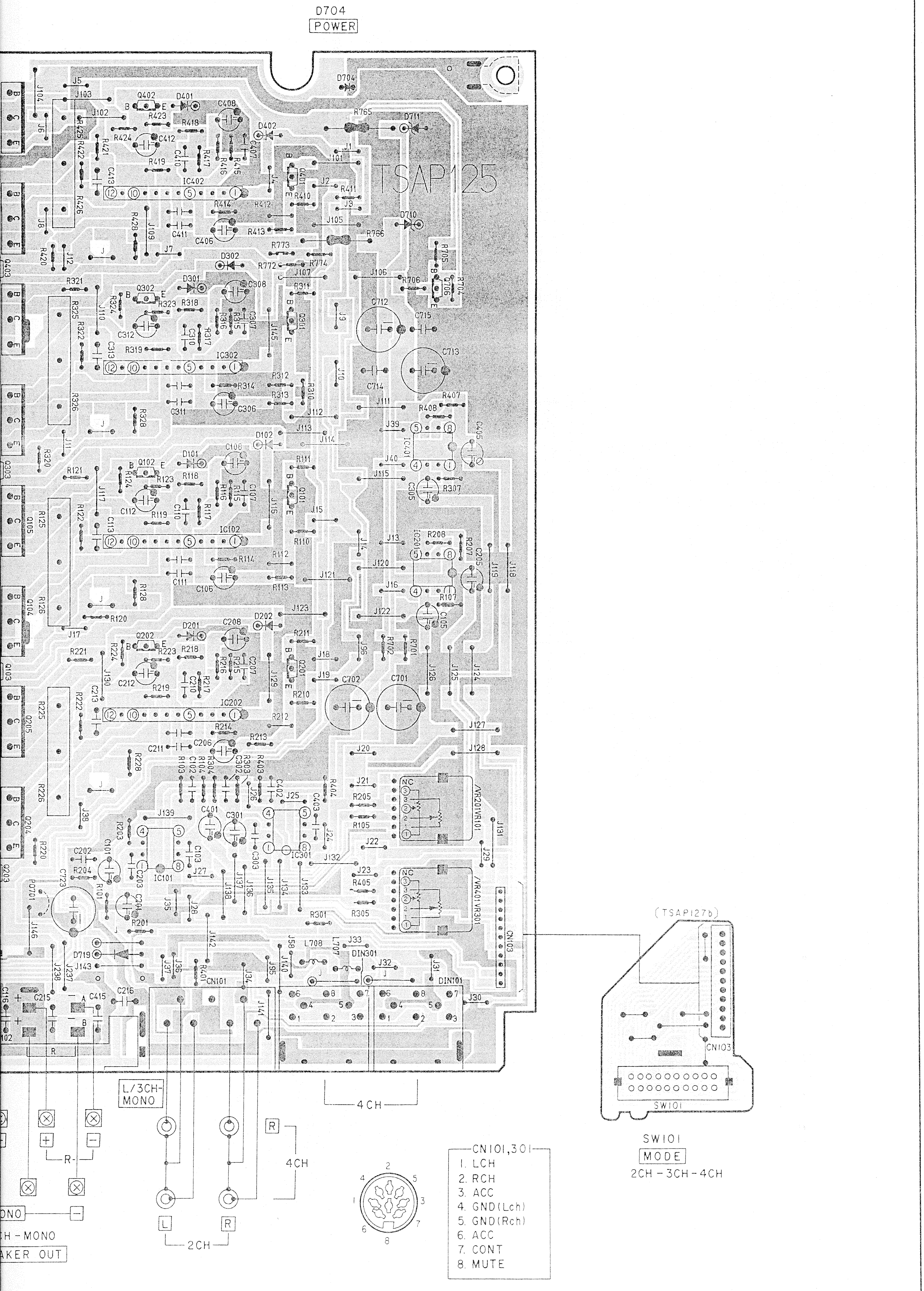
5302

WIRING DIAGRAM/VERKABELUNG DIAGRAMM — MODEL CY-M654EN


(TSAP127a)
F703
F701
3A
30A
FUSE
BATT
ACC
CONT
GND
POWER
CN701
BAT
ACC
GND
CONT
T701
C739
C741
C740
C748
C733
C735
C736
C734
C737
C738
L705
L706
D715
D714
C731
C730
C732
C709
C711
C747
L701
L702
L703
D706
D707
D708
D720
R767
R759
IC701
Q701
Q702
Q703
Q704
Q705
Q709
Q714
Q715
Q716
Q717
Q718
Q719
Q720
Q721
Q722

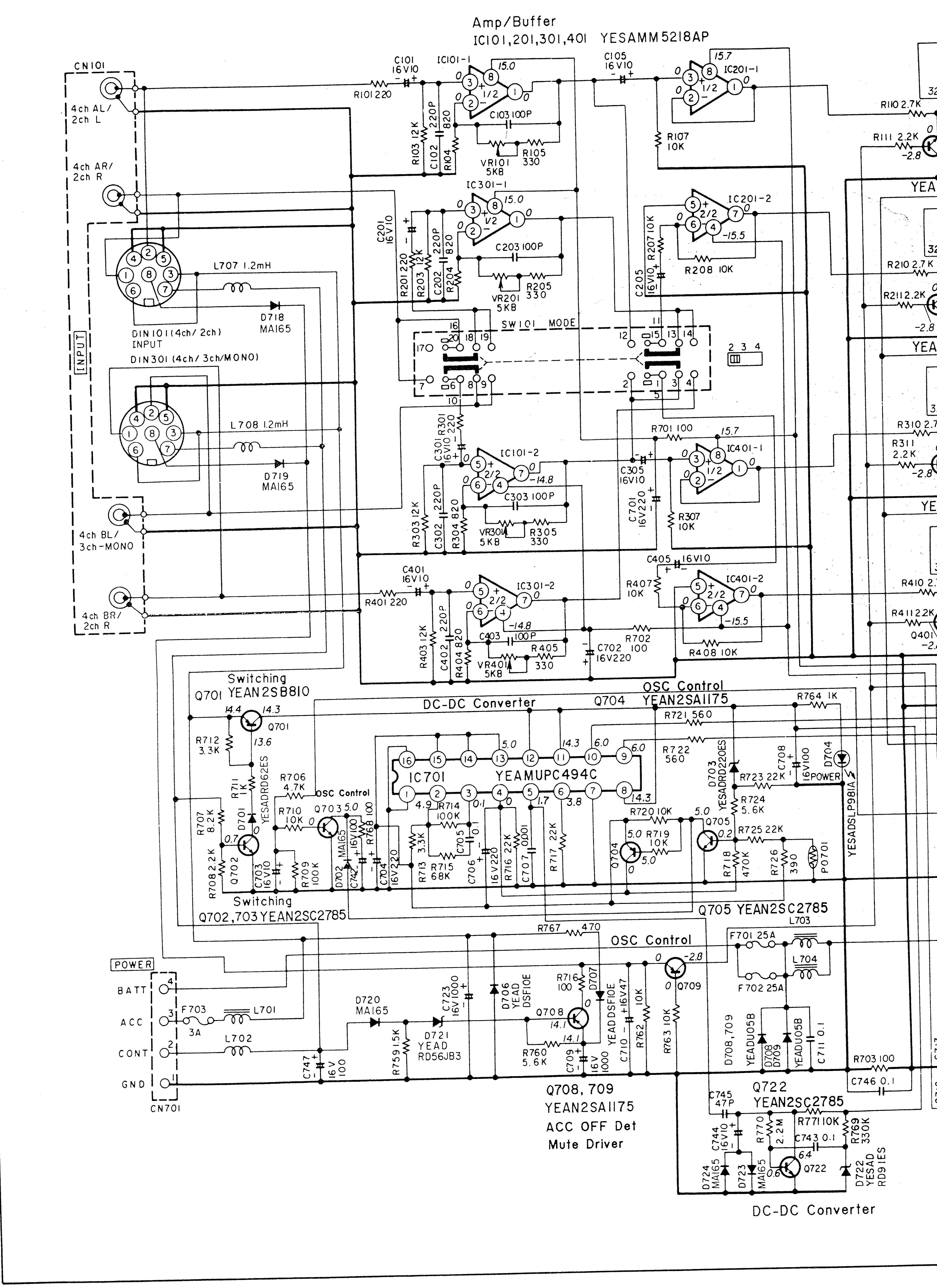
5302


D704
POWER
TSAP125
CN101
CN102
CN103
CN701
BAT
ACC
CONT
GND
CONT
GND
POWER
L/3CH-MONO
4CH
R
4CH
L
R
2CH
+
-
L
+
-
R
+
MONO
-
R/3CH-MONO
SPEAKER OUT
CN101,301
1. LCH
2. RCH
3. ACC
4. GND(Lch)
5. GND(Rch)
6. ACC
7. CONT
8. MUTE
(TSAP12
SW101
SW101
MODE
2CH-3CH-


D704
POWER
TSAP125
(TSAP127b)
CN103
SW101
L/3CH-MONO
4CH
R
4CH
L
R
2CH
+
-
R
ONO
H-MONO
AKER OUT
CN101,301
1. LCH
2. RCH
3. ACC
4. GND(Lch)
5. GND(Rch)
6. ACC
7. CONT
8. MUTE
SW101
MODE
2CH - 3CH - 4CH
VR201 VR101
VR401 VR301
DIN301
DIN101
CN101
IC101
IC301
IC401
IC201
IC102
IC202
IC302
IC402
C701
C702
C712
C713
C723
PO701
D719

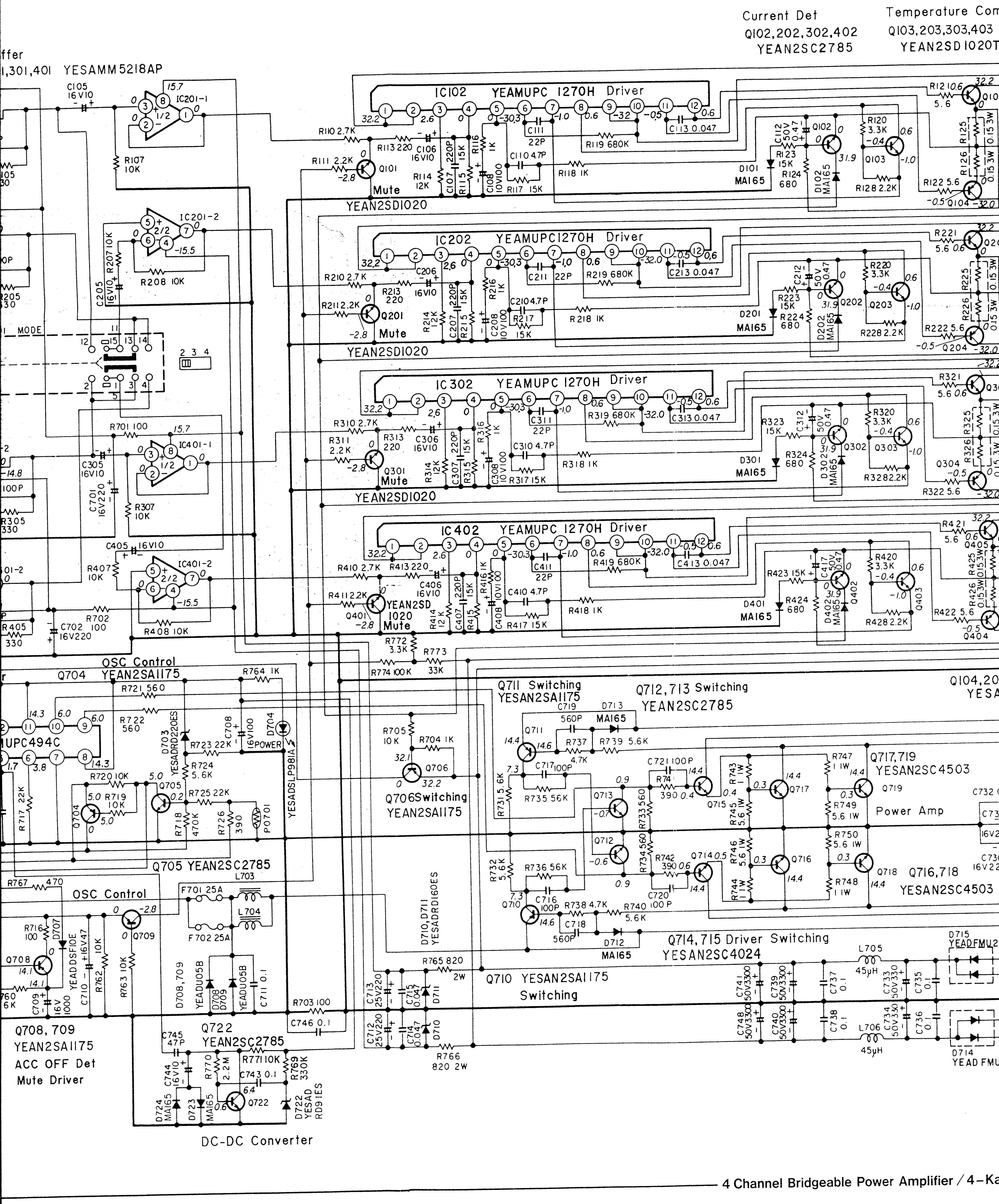
4 Channel Bridgeable Power Amplifier / 4-Kanal-Brückenleistungsverstärker

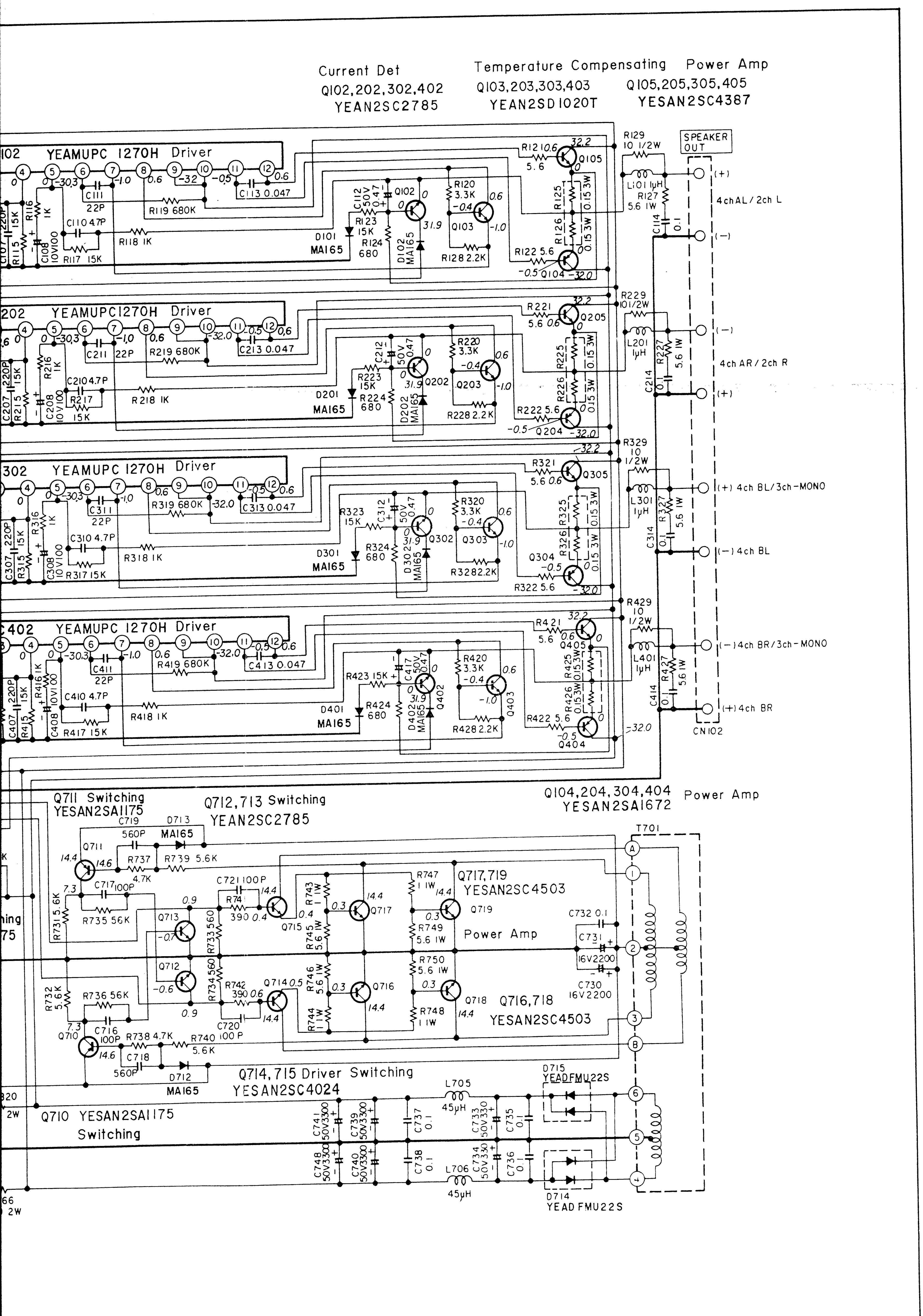
SCHEMATIC DIAGRAM/SCHEMATISCHES DIAGRAMM — MODEL CY-M1004EN



Amp/Buffer
IC101,201,301,401 YESAMM5218AP
CN101
4ch AL/ 2ch L
4ch AR/ 2ch R
4ch BL/ 3ch-MONO
4ch BR/ 2ch R
INPUT
DIN101 (4ch/2ch) INPUT
DIN301 (4ch/3ch/MONO)
L707 1.2mH
L708 1.2mH
D718 MA165
D719 MA165
C101 16V10
R101 220
IC101-1
C103 100P
R103 12K
C102 220P
R104 820
VR101 5KB
R105 330
C105 16V10
IC201-1
R107 10K
R110 2.7K
R111 2.2K
IC301-1
C201 16V10
R201 220
R203 12K
C202 220P
R204 820
C203 100P
VR201 5KB
R205 330
IC201-2
R207 10K
C205 16V10
R208 10K
R210 2.7K
R211 2.2K
SW101 MODE
2 3 4
R301 220
C301 16V10
IC101-2
C303 100P
R303 12K
C302 220P
R304 820
VR301 5KB
R305 330
R701 100
C305 16V10
IC401-1
C701 16V220
R307 10K
R310 2.7
R311 2.2K
C401 16V10
R401 220
IC301-2
C403 100P
R403 12K
C402 220P
R404 820
VR401 5KB
R405 330
C702 16V220
R702 100
C405 16V10
R407 10K
IC401-2
R408 10K
R410 2.
R411 2.2K
Q401
Switching
Q701 YEAN2SB810
DC-DC Converter
Q704
OSC Control
YEAN2SA1175
R764 1K
R721 560
R722 560
R712 3.3K
R711 1K
D701 YESADRD62ES
R706 4.7K
OSC Control
R707 8.2K
R708 2.2K
Q702
C703 16V10
R709 100K
R710 10K
Q703
D702 MA165
C742 16V100
R768 100
C704 16V220
IC701
YEAMUPC494C
R714 100K
R713 3.3K
R715 68K
C705 0.1
C706 16V220
R716 22K
C707 0.001
R717 22K
R720 10K
R719 10K
Q705
D703 YESADRD220ES
R723 22K
C708 16V100
D704 POWER
YESADSLP981A
R724 5.6K
R725 22K
R718 470K
R726 390
P0701
Switching
Q702,703 YEAN2SC2785
Q705 YEAN2SC2785
R767 470
OSC Control
L703
F701 25A
L704
F702 25A
POWER
BATT
ACC
CONT
GND
CN701
F703 3A
L701
L702
D720 MA165
C747 16V100
R759 1.5K
D721 YEAD RD56JB3
C723 16V1000
D706 YEAD DSF10E
R716 100
D707 YEAD DSF10E
Q708
Q709
R760 5.6K
C709 16V1000
C710 16V47
R762 10K
R763 10K
D708,709 YEADU05B
C711 0.1
R703 100
C746 0.1
Q722 YEAN2SC2785
C745 47P
C744 16V10
R770 2.2M
R771 10K
C743 0.1
R769 330K
D724 MA165
D723 MA165
D722 YESAD RD91ES
Q708, 709
YEAN2SA1175
ACC OFF Det
Mute Driver
DC-DC Converter

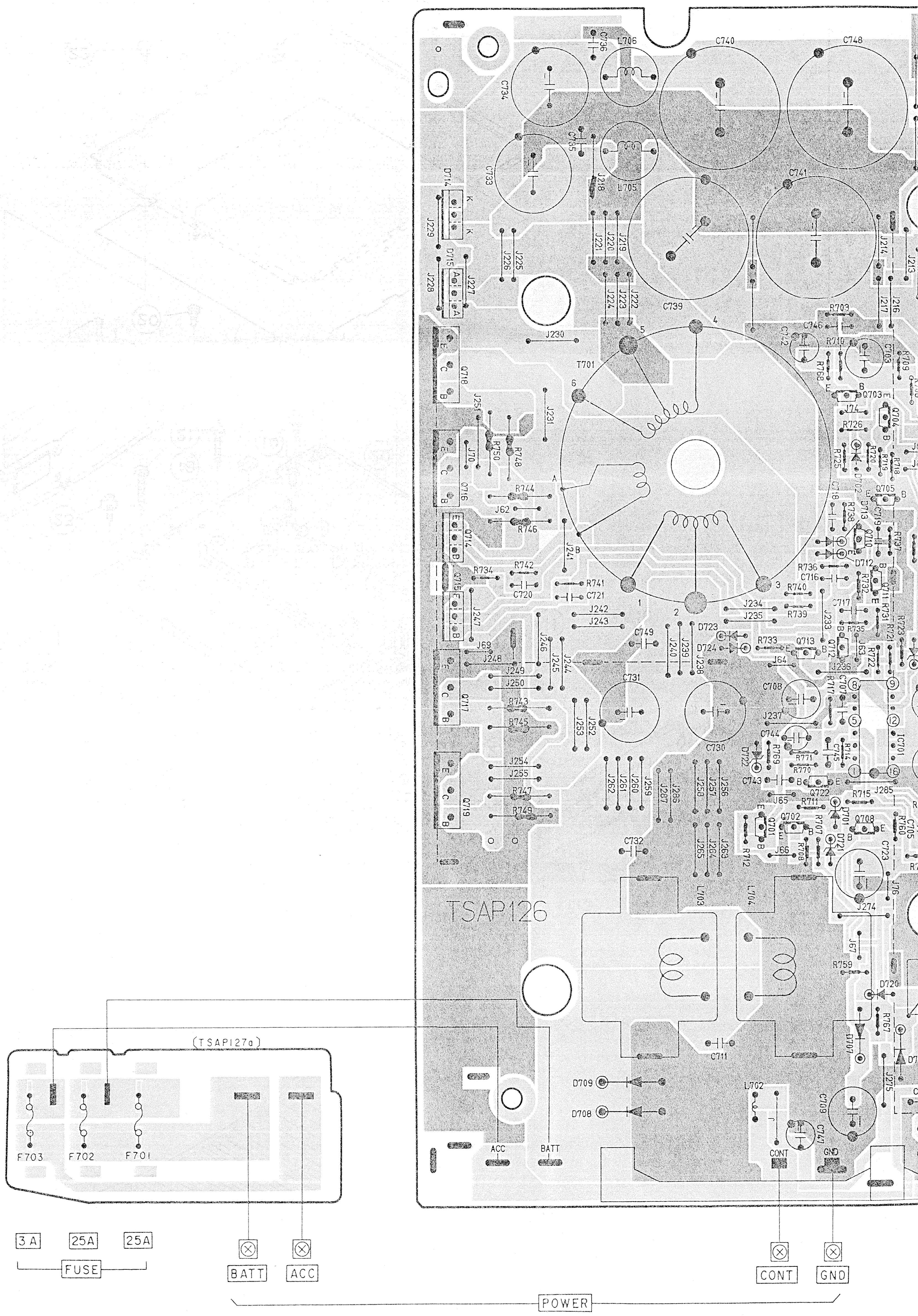
ODEL CY-M1004EN


Current Det
Q102,202,302,402
YEAN2SC2785
Temperature Com
Q103,203,303,403
YEAN2SD1020T
ffer
1,301,401 YESAMM5218AP
C105 16V10
IC201-1
R107 10K
IC201-2
R207 10K
R208 10K
C205 16V10
R205 330
MODE
2 3 4
R701 100
IC401-1
C305 16V10
C701 16V220
R307 10K
R305 330
C405 16V10
IC401-2
R407 10K
C702 16V220
R702 100
R408 10K
R405 330
IC102 YEAMUPC 1270H Driver
R110 2.7K
R113 220
C106 16V10
R111 2.2K
Q101
Mute
YEAN2SD1020
R114 12K
C107 220P
R115 15K
R116 1K
C108 10V100
C111 22P
C110 4.7P
R117 15K
R118 1K
R119 680K
C113 0.047
C112 50V 0.47
Q102
R123 15K
R124 680
D101 MA165
D102 MA165
R120 3.3K
Q103
R128 2.2K
R121 5.6
R125
R126
0.15 3W
R122 5.6
Q104
IC202 YEAMUPC1270H Driver
R210 2.7K
C206 16V10
R213 220
R211 2.2K
Q201
Mute
YEAN2SD1020
R214 12K
C207 220P
R215 15K
R216 1K
C208 10V100
C211 22P
C210 4.7P
R217 15K
R218 1K
R219 680K
C213 0.047
C212 50V 0.47
Q202
R223 15K
R224 680
D201 MA165
D202 MA165
R220 3.3K
Q203
R228 2.2K
R221 5.6
R225
R226
R222 5.6
Q204
IC302 YEAMUPC 1270H Driver
R310 2.7K
R313 220
C306 16V10
R311 2.2K
Q301
Mute
YEAN2SD1020
R314 12K
C307 220P
R315 15K
R316 1K
C308 10V100
C311 22P
C310 4.7P
R317 15K
R318 1K
R319 680K
C313 0.047
R323 15K
C312 50V 0.47
Q302
R324 680
D301 MA165
D302 MA165
R320 3.3K
Q303
R328 2.2K
R321 5.6
R325
R326
Q304
R322 5.6
IC402 YEAMUPC 1270H Driver
R410 2.7K
R413 220
C406 16V10
R411 2.2K
Q401
YEAN2SD 1020
Mute
R414 12K
C407 220P
R415 15K
R416 1K
C408 10V100
C411 22P
C410 4.7P
R417 15K
R418 1K
R419 680K
C413 0.047
R423 15K
C417 50V 0.47
Q402
R424 680
D401 MA165
D402 MA165
R420 3.3K
Q403
R428 2.2K
R421 5.6
Q405
R425 0.15 3W
R426 0.15 3W
R422 5.6
Q404
R772 3.3K
R773 33K
R774 100K
OSC Control
Q704 YEAN2SA1175
R764 1K
R721 560
UPC494C
R722 560
D703 YESADRD220ES
R723 22K
C708 16V100
D704 POWER
YESADSLP981A
R724 5.6K
R720 10K
R719 10K
Q704
Q705
R725 22K
R717 22K
R718 470K
R726 390
P0701
Q705 YEAN2SC2785
R705 10K
R704 1K
Q706
Q706 Switching
YEAN2SA1175
Q711 Switching
YESAN2SA1175
Q712,713 Switching
YEAN2SC2785
C719 560P
D713 MA165
Q711
R737 4.7K
R739 5.6K
C717 100P
C721 100P
R741 390
R731 5.6K
R735 56K
Q713
R733 560
Q715
R743 1W
R745 5.6 1W
Q717
R747 1W
R749 5.6 1W
Q717,719
YEAN2SC4503
Q719
Power Amp
Q712
R734 560
R742 390
Q714
R746 5.6 1W
Q716
R750 5.6 1W
Q718
Q716,718
YESAN2SC4503
R732 5.6K
R736 56K
R744 1W
R748 1W
Q710
C716 100P
R738 4.7K
R740 5.6K
C720 100P
C718 560P
D712 MA165
Q714,715 Driver Switching
YESAN2SC4024
D710,D711 YESADRD160ES
Q104,20
YESA
C732
R767 470
OSC Control
F701 25A
L703
L704
F702 25A
Q709
R716 100
D707
Q708
YEADDSF10E
C710 16V47
R762 10K
R763 10K
R760 6K
C709 16V 1000
D708,709
YEADU05B
C711 0.1
R765 820 2W
C713 25V220
C715 0.047
D711
C712 25V220
C714 0.047
D710
R766 820 2W
Q710 YESAN2SA1175
Switching
R703 100
C746 0.1
C741 50V3300
C739 50V3300
C737 0.1
L705 45μH
C733 50V330
C735 0.1
D715 YEADFMU2
C748 50V3300
C740 50V3300
C738 0.1
L706 45μH
C734 50V330
C736 0.1
D714 YEADFMU
Q708, 709
YEAN2SA1175
ACC OFF Det
Mute Driver
C745 47P
Q722
YEAN2SC2785
R771 10K
R769 330K
C744 16V10
R770 2.2M
C743 0.1
D724 MA165
D723 MA165
Q722
D722 YESAD RD91ES
DC-DC Converter


Current Det
Q102,202,302,402
YEAN2SC2785
Temperature Compensating
Q103,203,303,403
YEAN2SD1020T
Power Amp
Q105,205,305,405
YESAN2SC4387
102 YEAMUPC 1270H Driver
202 YEAMUPC1270H Driver
302 YEAMUPC 1270H Driver
C402 YEAMUPC 1270H Driver
R129 10 1/2W
R229 10 1/2W
R329 10 1/2W
R429 10 1/2W
SPEAKER OUT
L101 1μH
L201 1μH
L301 1μH
L401 1μH
R127 5.6 1W
R227 5.6 1W
R327 5.6 1W
R427 5.6 1W
C114 0.1
C214 0.1
C314 0.1
C414 0.1
(+)
(−)
4chAL/2ch L
4ch AR/2ch R
(+) 4ch BL/3ch-MONO
(−) 4ch BL
(−) 4ch BR/3ch-MONO
(+) 4ch BR
CN102
R121 5.6
Q105
R120 3.3K
Q102
Q103
C112 50V 0.47
R123 15K
R124 680
D101 MA165
D102 MA165
R125 0.15 3W
R126 0.15 3W
R128 2.2K
R122 5.6
Q104
C111 22P
C113 0.047
R119 680K
C110 4.7P
R118 1K
R117 15K
R116 1K
R115 15K
C107 220P
C108 10V100
Q205
Q202
Q203
Q204
R221 5.6
R220 3.3K
R223 15K
R224 680
D201 MA165
D202 MA165
R225 0.15 3W
R226 0.15 3W
R228 2.2K
R222 5.6
C211 22P
C213 0.047
R219 680K
C210 4.7P
R218 1K
R217 15K
R216 1K
C212 50V 0.47
C207 220P
R215 15K
C208 10V100
Q305
Q302
Q303
Q304
R321 5.6
R320 3.3K
R323 15K
R324 680
D301 MA165
D302 MA165
R325 0.15 3W
R326 0.15 3W
R328 2.2K
R322 5.6
C311 22P
C313 0.047
R319 680K
C310 4.7P
R318 1K
R317 15K
R316 1K
C312 50V 0.47
C307 220P
R315 15K
C308 10V100
Q405
Q402
Q403
Q404
R421 5.6
R420 3.3K
R423 15K
R424 680
D401 MA165
D402 MA165
R425 0.15 3W
R426 0.15 3W
R428 2.2K
R422 5.6
C411 22P
C413 0.047
R419 680K
C410 4.7P
R418 1K
R417 15K
R416 1K
C417 50V 0.47
C407 220P
R415 15K
C408 10V100
Q104,204,304,404
YESAN2SA1672
Power Amp
Q711 Switching
YESAN2SA1175
Q712,713 Switching
YEAN2SC2785
C719 560P
D713 MA165
R737 4.7K
R739 5.6K
C717 100P
R735 56K
R731 5.6K
Q713
Q712
C721 100P
R741 390
R733 560
R734 560
R742 390
C720 100P
Q715
Q714
R743 1 1W
R745 5.6 1W
R746 5.6 1W
R744 1 1W
Q717
Q716
R747 1 1W
R749 5.6 1W
R750 5.6 1W
R748 1 1W
Q717,719
YESAN2SC4503
Q719
Q718
Power Amp
Q716,718
YESAN2SC4503
C732 0.1
C731 16V2200
C730 16V2200
T701
R732 5.6K
R736 56K
C716 100P
Q710
R738 4.7K
R740 5.6K
C718 560P
D712 MA165
Q714,715 Driver Switching
YESAN2SC4024
Q710 YESAN2SA1175
Switching
L705 45μH
L706 45μH
C741 50V3300
C739 50V3300
C737 0.1
C733 50V330
C735 0.1
C748 50V3300
C740 50V3300
C738 0.1
C734 50V330
C736 0.1
D715 YEADFMU22S
D714 YEAD FMU22S
A
1
2
3
B
6
5
4

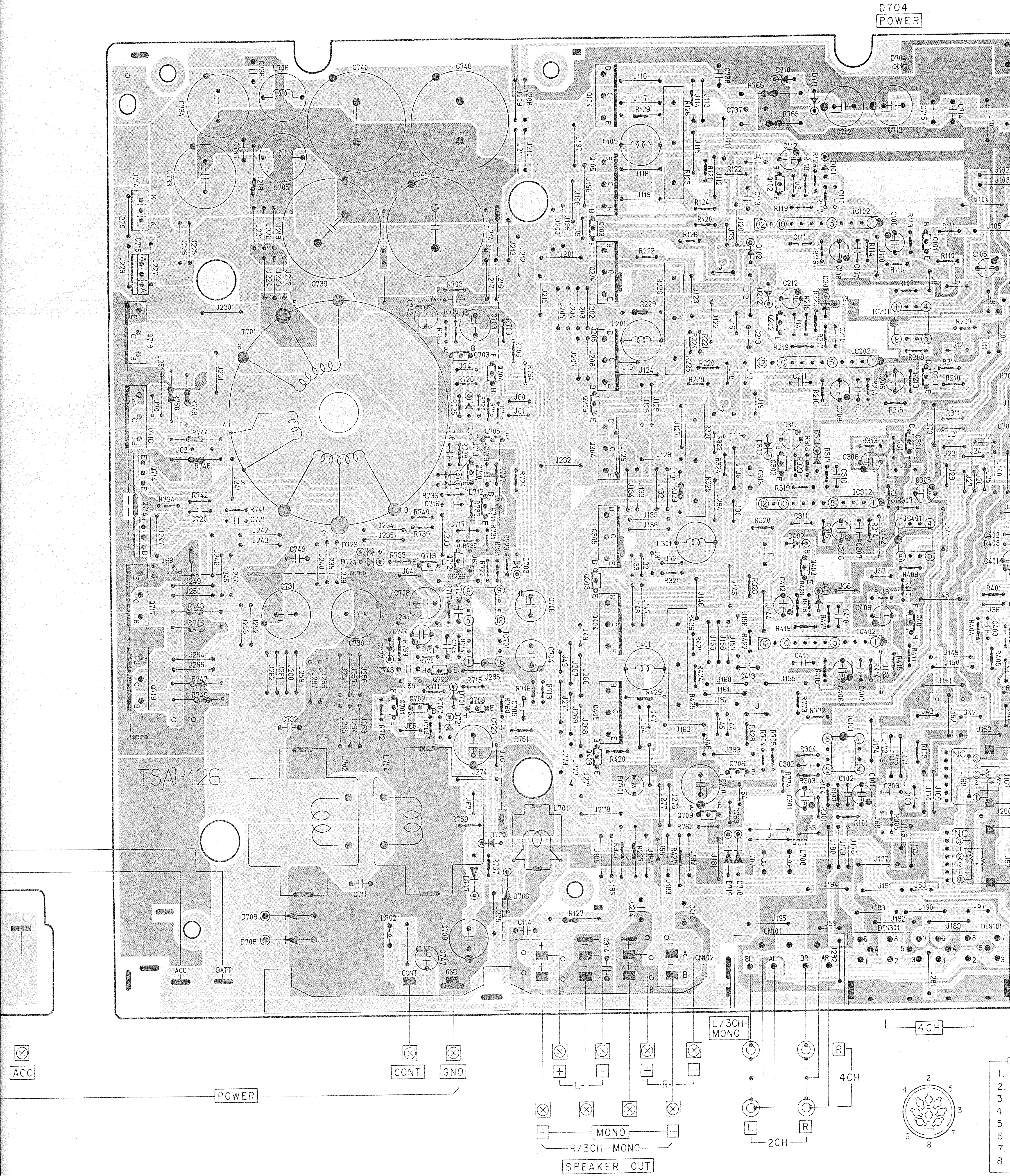
5302

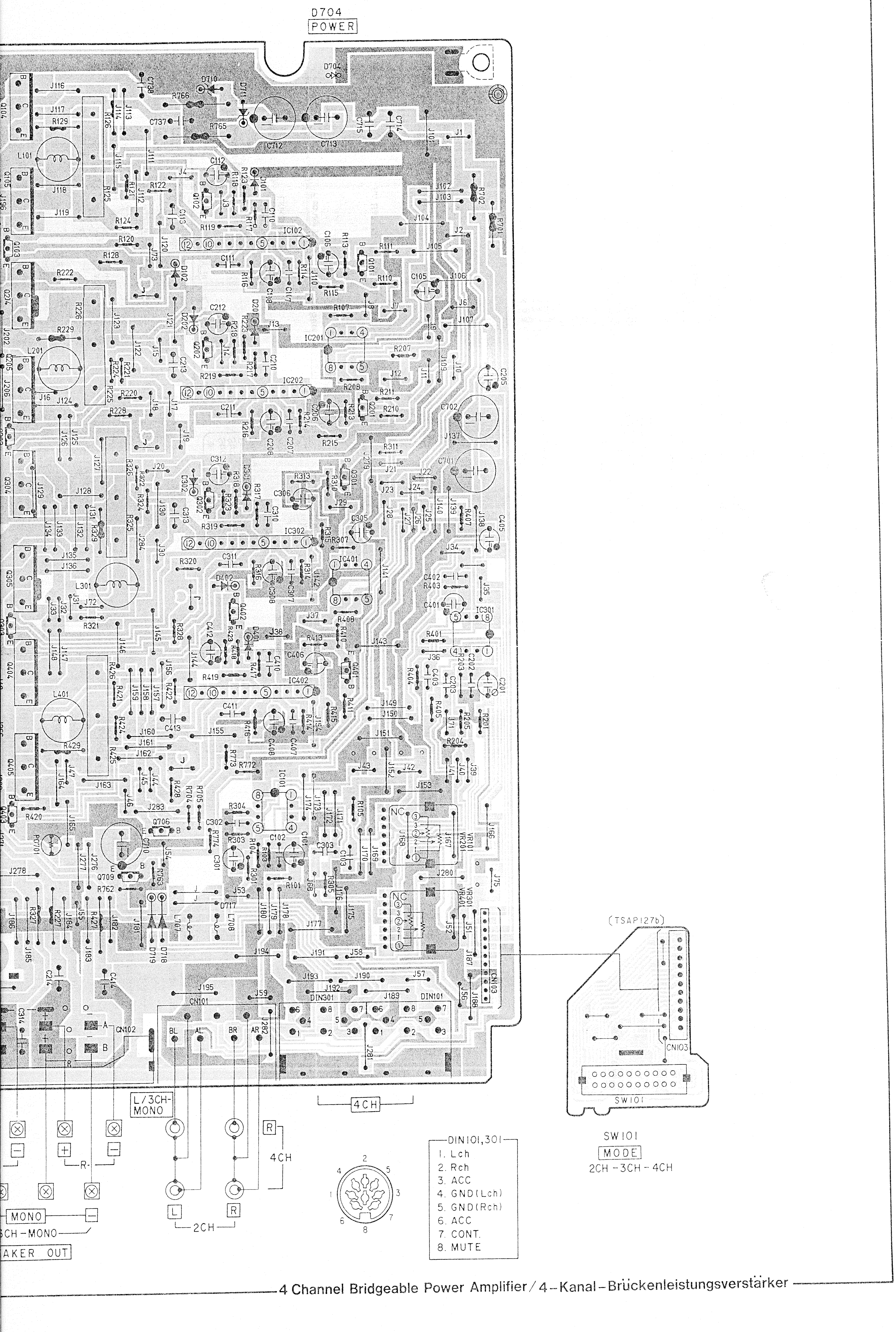
WIRING DIAGRAM/VERKABELUNG DIAGRAMM — MODEL CY-M1004EN


TSAP126
(TSAP127a)
T701
IC701
C740
C748
C741
C739
C733
C734
C736
C735
L705
L706
L703
L704
L702
C731
C730
C732
C749
C709
C711
D709
D708
Q716
Q718
Q714
Q715
Q717
Q719
ACC
BATT
CONT
GND
F703
F702
F701
3A
25A
25A
FUSE
BATT
ACC
CONT
GND
POWER

5302

RAMM — MODEL CY-M1004EN


D704
POWER
TSAP126
T701
CN101
CN102
DIN301
DIN101
ACC
BATT
CONT
GND
ACC
CONT
GND
POWER
L/3CH-MONO
4CH
+
-
L
R
R
4CH
L
R
2CH
MONO
R/3CH-MONO
SPEAKER OUT


D704
POWER
IC101
IC102
IC201
IC202
IC301
IC302
IC401
IC402
L101
L201
L301
L401
C701
C702
C712
C713
CN101
CN102
CN103
DIN101
DIN301
VR101
VR201
VR301
VR401
Q706
Q709
PO701
(TSAP1276)
SW101
BL
AL
BR
AR
L/3CH-
MONO
4CH
R
L
2CH
MONO
3CH-MONO
AKER OUT
SW101
MODE
2CH-3CH-4CH

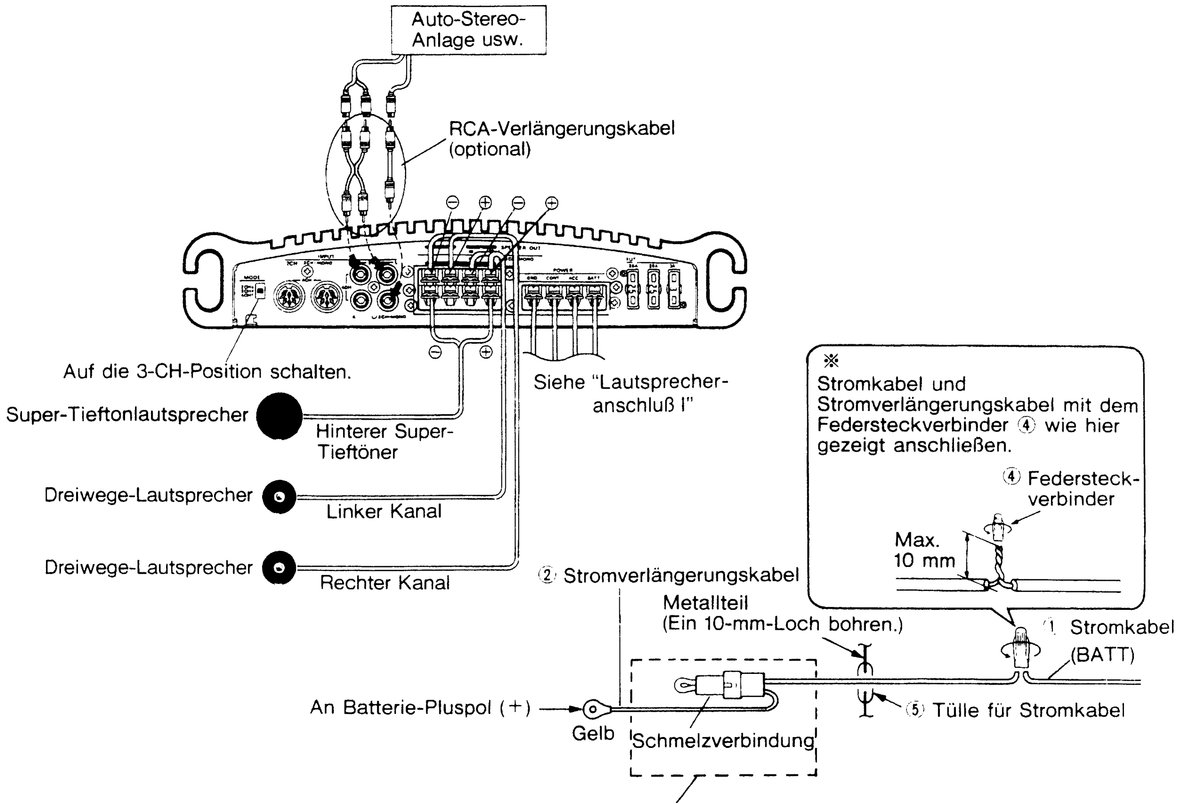
DIN101,301
1. Lch
2. Rch
3. ACC
4. GND(Lch)
5. GND(Rch)
6. ACC
7. CONT.
8. MUTE

4 Channel Bridgeable Power Amplifier / 4-Kanal-Brückenleistungsverstärker

Lautsprecheranschluß II

Für 3-Kanal-System:

Hinweis:
- Keinen Lautsprecher mit weniger als 4 Ω Impedanz als Super-Tieftöner verwenden.

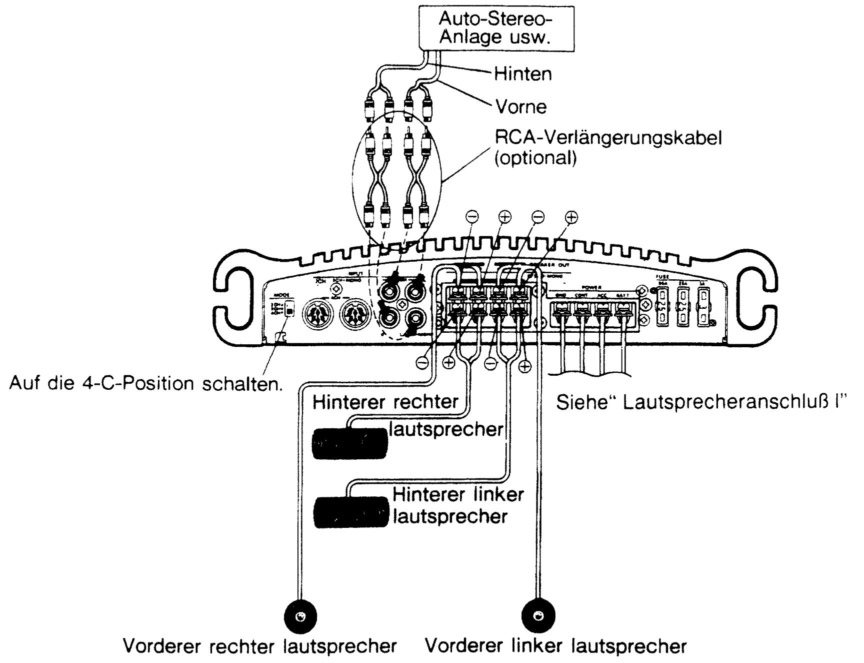

Auto-Stereo-Anlage usw.
RCA-Verlängerungskabel (optional)
⊖ ⊕ ⊖ ⊕
Auf die 3-CH-Position schalten.
⊖ ⊕
Super-Tieftonlautsprecher
Hinterer Super-Tieftöner
Dreiwege-Lautsprecher
Linker Kanal
Dreiwege-Lautsprecher
Rechter Kanal
Siehe "Lautsprecher-anschluß I"
② Stromverlängerungskabel
Metallteil (Ein 10-mm-Loch bohren.)
An Batterie-Pluspol (+)
Gelb
Schmelzverbindung
① Stromkabel (BATT)
⑤ Tülle für Stromkabel
④ Federsteckverbinder
Max. 10 mm

※ Stromkabel und Stromverlängerungskabel mit dem Federsteckverbinder ④ wie hier gezeigt anschließen.

Die Sicherung für das Modell CY-M654EN hat eine andere Form.

Lautsprecheranschluß III

Für 4-Kanal-System:

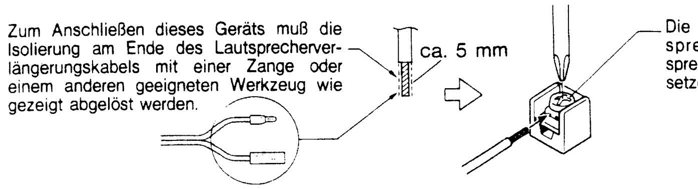

Auto-Stereo-Anlage usw.
Hinten
Vorne
RCA-Verlängerungskabel (optional)
⊖ ⊕ ⊖ ⊕
Auf die 4-C-Position schalten.
Hinterer rechter lautsprecher
Hinterer linker lautsprecher
Siehe" Lautsprecheranschluß I"
Vorderer rechter lautsprecher
Vorderer linker lautsprecher

Grundlegende Gerätebedienung

Aus Gründen der Fahrsicherheit ist der Lautstärkepegel so einzustellen, daß auch andere Verkehrsgeräusche (Hupen usw.) vernommen werden können.

Vorsichtsmaßnahmen:

- Dieses Gerät ist für den Gebrauch zusammen mit einem Panasonic-Cassetten-/Radio-Gerät entwickelt und gebaut.
- Dieses Gerät wird automatisch ein- und ausgeschaltet, wenn das Cassetten-/Radio-Gerät ein- oder ausgeschaltet wird. Bei eingeschaltetem Cassetten-/Radiogerät leuchtet die Betriebsanzeige.
- Da dieses Gerät eine hohe Ausgangsleistung bietet, verbraucht es auch viel Strom: deshalb sollte es nicht bei abgestelltem Motor betrieben werden, da anderenfalls die Batterie schwach werden kann, was zu Anlaßproblemen führen könnte.
- Für den Gebrauch dieses Geräts muß das Lautsprecherverlängerungskabel (mit Lautsprecher mitgeliefert) wie in der Abbildung unten gezeigt behandelt werden.

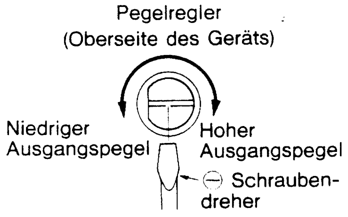


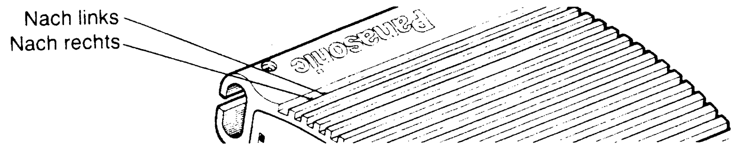
Zum Anschließen dieses Geräts muß die Isolierung am Ende des Lautsprecherverlängerungskabels mit einer Zange oder einem anderen geeigneten Werkzeug wie gezeigt abgelöst werden.

Die Schraube lösen und die Spitze des Lautsprecherverlängerungskabels am Lautsprecherausgang des Geräts anschließen. (Einsetzen und sichern.)

■ Pegeleinstellung:

Es kann vorkommen, daß die Lautsprecherausgänge nicht richtig balanciert sind, je nach Typ der verwendeten Lautsprecher oder des jeweiligen Cassetten-/Radio-Geräts. In diesem Fall die Lautstärke durch Drehen des Pegelreglers nach links oder rechts einzustellen versuchen, bis die Lautsprecherausgänge ausbalanciert sind. Hierzu einen normalen Schraubendreher verwenden, wie in der Abbildung gezeigt. Die Auswirkungen der Einstellungen sind in der Tabelle unten beschrieben.
Zuerst wird der Pegel auf –3dB vom Maximalpegel eingestellt.


Pegelregler (Oberseite des Geräts)
Niedriger Ausgangspegel
Hoher Ausgangspegel
⊖ Schraubendreher


Nach links
Nach rechts

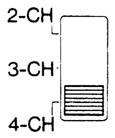
Betriebsart \ Pegelregler	Nach links	Nach rechts
2 CH	Erhöht (vermindert) die Lautstärke der linken Seite.	Elhöht (vermindert) die Lautstärke der rechten Seite.
3 CH	Erhöht (vermindert) sowohl die Lautstärke der linken als auch die der rechten Seite.	Erhöht (vermindert) die Lautstärke der rechten Seite. Tieftöners.
4 CH	Erhöht (vermindert) sowohl die Lautstärke des vorderen linken als auch die des vorderen rechten lautsprechers.	Erhöht (vermindert) sowohl die Lautstärke des hinteren linken als auch die des hinteren rechten Lautsprechers.

■ Betriebsartenwahl:

Dieser Betriebsartenwahlschalter besitzt drei Positionen, die nachfolgend erläutert werden. Bezüglich Lautsprecheranschluß siehe Abbildungen unten.

Batterie \ Modell	CY-M654EN-Ausgang	CY-M1004EN-Ausgang
2 CH	130W x 2	200W x 2
3 CH	65W x 2+130W	100W x 2+200W
4 CH	65W x 4	100W x 4

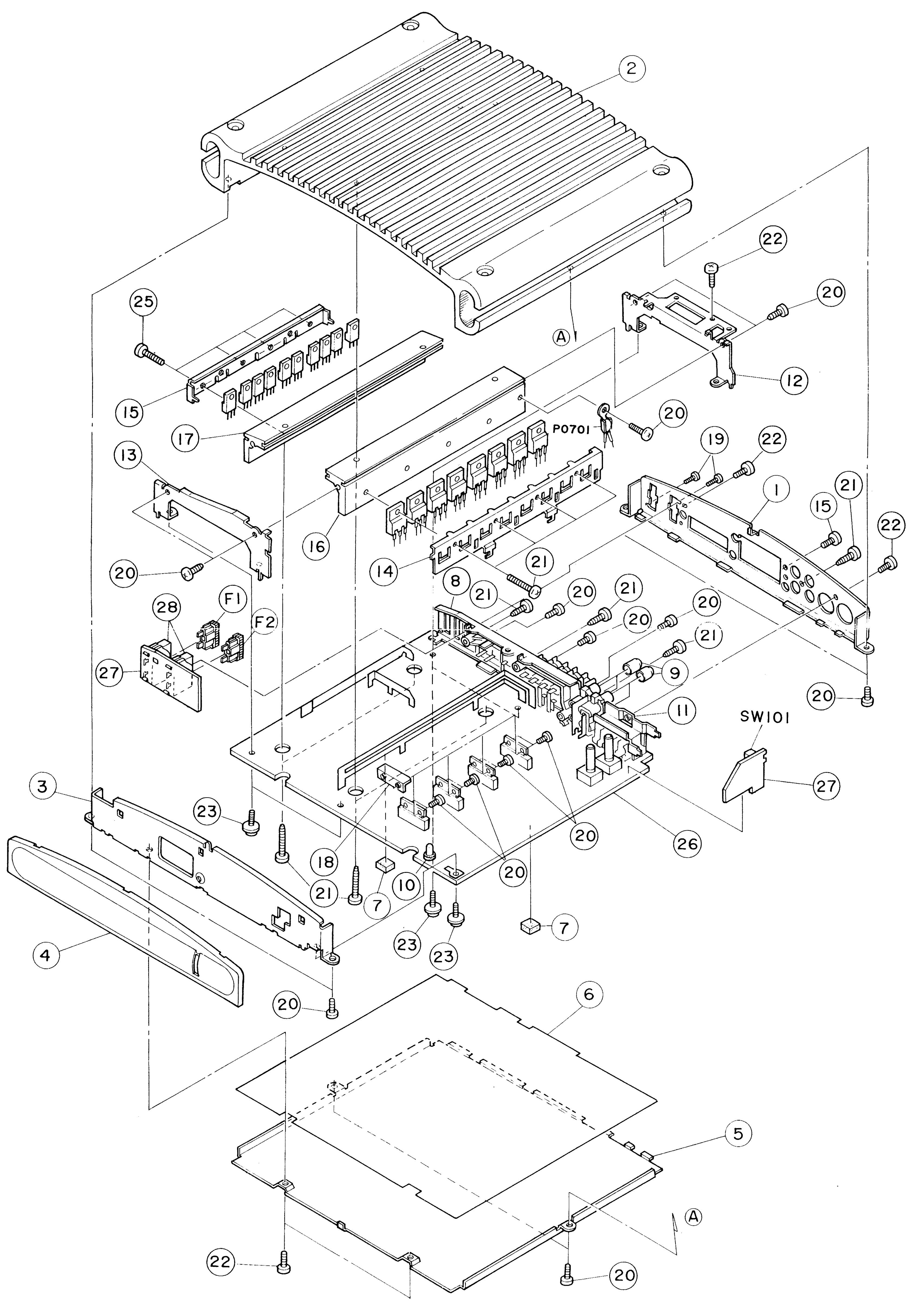
Betriebsartenwahlschalter



Vorsicht: Vor Betätigung des Betriebsartenwahlschalters und Anschluß des Lautsprecherkabels muß das Gerät ausgeschaltet sein.

EXPLODED VIEW/AUFGELÖTE DARSTELLUNGS —MODEL CY-M654EN

- Numbers in ○ are indicated REF. No. in the REPLACEMENT PARTS LIST.


②
㉒
⑳
㉕
⑫
⑮
⑰
Ⓐ
⑳
P0701
⑲
㉒
⑬
①
㉑
⑮
㉒
⑯
⑭
⑳
㉑
⑧
㉑
⑳
㉑
⑳
⑳
㉘
F1
F2
㉑
㉗
⑨
⑪
SW101
⑳
㉗
③
㉓
㉖
⑳
⑱
⑳
㉑
⑦
⑩
④
㉓
㉓
⑦
⑳
⑥
⑤
Ⓐ
㉒
⑳

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks

ICs & TRANSISTORS

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
IC101	YESAMM5218AP		IC	1	
IC102	YEAMUPC1270H		IC	1	
IC201	YESAMM5218AP		IC	1	
IC202	YEAMUPC1270H		IC	1	
IC301	YESAMM5218AP		IC	1	
IC302	YEAMUPC1270H		IC	1	
IC401	YESAMM5218AP		IC	1	
IC402	YEAMUPC1270H		IC	1	
IC701	YEAMUPC494C		IC	1	
Q101	YEAN2SD1020		Transistor	1	
Q102	YEAN2SC2785		Transistor	1	
Q103	YEAN2SD1020		Transistor	1	
Q104	YESAN2SA1671		Transistor	1	
Q105	YESAN2SC4386		Transistor	1	
Q201	YEAN2SD1020		Transistor	1	
Q202	YEAN2SC2785		Transistor	1	
Q203	YEAN2SD1020		Transistor	1	
Q204	YESAN2SA1671		Transistor	1	
Q205	YESAN2SC4386		Transistor	1	
Q301	YEAN2SD1020		Transistor	1	
Q302	YEAN2SC2785		Transistor	1	
Q303	YEAN2SD1020		Transistor	1	
Q304	YESAN2SA1671		Transistor	1	
Q305	YESAN2SC4386		Transistor	1	
Q401	YEAN2SD1020		Transistor	1	
Q402	YEAN2SC2785		Transistor	1	
Q403	YEAN2SD1020		Transistor	1	
Q404	YESAN2SA1671		Transistor	1	
Q405	YESAN2SC4386		Transistor	1	
Q701	YEAN2SB810		Transistor	1	
Q702	YEAN2SC2785		Transistor	1	
Q703	YEAN2SC2785		Transistor	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
Q704	YEAN2SA1175		Transistor	1	
Q705	YEAN2SC2785		Transistor	1	
Q706	YEAN2SA1175		Transistor	1	
Q708	YEAN2SA1175		Transistor	1	
Q709	YEAN2SA1175		Transistor	1	
Q710	YEAN2SA1175		Transistor	1	
Q711	YEAN2SA1175		Transistor	1	
Q712	YEAN2SC2785		Transistor	1	
Q713	YEAN2SC2785		Transistor	1	
Q714	YESAN2SC4024		Transistor	1	
Q715	YESAN2SC4024		Transistor	1	
Q716	YEAND1669RS		Transistor	1	
Q717	YEAND1669RS		Transistor	1	
Q718	YEAND1669RS		Transistor	1	
Q719	YEAND1669RS		Transistor	1	
Q720	YEAND1669RS		Transistor	1	
Q721	YEAND1669RS		Transistor	1	
Q722	YEAN2SC2785		Transistor	1	

DIODES

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
D101	MA165		Diode	1	
D102	MA165		Diode	1	
D201	MA165		Diode	1	
D202	MA165		Diode	1	
D301	MA165		Diode	1	
D302	MA165		Diode	1	
D401	MA165		Diode	1	
D402	MA165		Diode	1	
D701	YESADRD62ES		Diode	1	
D702	MA165		Diode	1	
D703	YESADRD220ES		Diode	1	
D704	YESADSLP981A		LED	1	

Replacement Parts List
Model NO. CY-M654EN

NOTES :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice : Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Next to the Ref. No. in the parts list is a location key, to show the general location of the parts shown in the exploded drawing, as in a road map.
4. Printed circuit board assembly with mark (NLA) is no longer available after production discontinuation of the complete set.

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
MISCELLANEOUS					
F1	YEAF01018		Fuse 3A (Plug in Fuse)	1	
F2	YESAF01004		Fuse 30A (Plug in Fuse)	1	
F3	YESAF01006		Fuse 30A	1	
CN101	YESAE124		RCA 4P Jack	1	
CN102	YESAT01016		Speaker Terminal	1	
CN103	YESAE125		11P Connector	1	
CN701	YESAT01014		4P Power Terminal	1	
DIN101	YESAE121		DIN Connector (4ch/2ch)	2	
DIN301			DIN Connector (4ch/3ch MONO)		
1	YESFA08005		Back Plate	1	
2	YESFF01022		Heat Shink	1	
3	YESFA07001		Front Plate	1	
4	YESFC04009		Panel Assy	1	
5	YESFA05016		Under Cover	1	
6	YESFV01028		Insulator	1	
7	YESFS01059		Pad	2	
8	YESFX021054		Mounting Bracket	1	
9	YESFR04005		RCA Cap	4	
10	YEFK04404		LED Holder	1	
11	YESFX021049		Mounting Bracket for DIN	1	
12	YESFX021050		Mounting Bracket for PCB (A)	1	
13	YESFX021051		Mounting Bracket for PCB (B)	1	
14	YESFX021052		Mounting Bracket for TR (A)	1	
15	YESFX021053		Mounting Bracket for TR (B)	1	
16	YESFF01023		Heat Shink (A)	1	
17	YESFF01024		Heat Shink (B)	1	
18	YESFF01021		Heat Shink for IC	4	
19	YESJT03021		Screw 2mmϕ×8mm (Black)	2	
20	YESJT03022		Screw 3mmϕ×6mm	19	
21	YEJS06027		Screw 3mmϕ×10mm (Black)	13	
22	YEJT03074		Screw 3mmϕ×6mm (Black)	6	
23	YEJT03073		Screw 3mmϕ×6mm	5	
25	YESJT03024		Screw 3mmϕ×12mm	4	
26	YESAP128		PCB w/Component	1	NLA
27	YESAP127		PCB w/Component	1	NLA
28	YEFK02056		Fuse Holder	2	
29	YESAT01012		Terminal	2	
PRINTING					
	YEFM281820		Instruction Book	1	
	YEFM281784		Instruction Book	1	
WIRING KIT					
1	YEAJ011181		Power Supply Cord (BATT)	1	
2	YEAJ02557		Power Ext, Cord w/Fuse	1	
3	YEAJ09265			1	
4	YBAE01051		Spring Connector (Yellow)	1	
5	YBFR01015		Rubber Bush	1	
6	YEFA13925		Insulator Cover	1	
7	YESJT03026		Cup Tight Screw (M3×8)	2	
SUPPLIED HARDWARES					
	XTN5+65AFZ		Screw 5mmϕ×65mm	4	
	XWE5E10FZ		Washer	4	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
D706	YEADDSF10E		Diode	1	
D707	YEADDSF10E		Diode	1	
D708	YEADU05B		Diode	1	
D710	YESADRD160ES		Diode	1	
D711	YESADRD160ES		Diode	1	
D712	MA165		Diode	1	
D713	MA165		Diode	1	
D714	YEADFMU22R		Diode	1	
D715	YEADFMU22S		Diode	1	
D718	MA165		Diode	1	
D719	MA165		Diode	1	
D720	MA165		Diode	1	
D721	YEADRD56JB3		Diode	1	
D722	YESADRD91ES		Diode	1	
D723	MA165		Diode	1	
D724	MA165		Diode	1	

CAPACITORS

C101	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C102	YEU05B221K		Ceramic, 220PF 50WV	1	
C103	YEU05B101K		Ceramic, 100PF 50WV	1	
C105	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C106	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C107	YEU05B221K		Ceramic, 220PF 50WV	1	
C108	ECEA1AU101		Electrolytic AL,100MFD 10WV	1	
C110	YEU05SL4R7K		Ceramic, 4.7MFD 50WV	1	
C111	YEU05SL220J		Ceramic, 22PF 50WV	1	
C112	ECEA1HUR47		Electrolytic AL,0.47MFD 50WV	1	
C113	YECQZ1H473K		Polyester, 0.047MFD 50WV	1	
C114	YESCC001		Ceramic, 0.1MFD 50WV	1	
C201	ECEA1CFS221		Electrolytic AL,220MFD 16WV	1	
C202	YEU05B221K		Ceramic, 220PF 50WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C203	YEU05B101K		Ceramic, 100PF 50WV	1	
C205	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C206	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C207	YEU05B221K		Ceramic, 220PF 50WV	1	
C208	ECEA1AU101		Electrolytic AL,100MFD 10WV	1	
C210	YEU05SL4R7K		Ceramic, 4.7MFD 50WV	1	
C211	YEU05SL220J		Ceramic, 22PF 50WV	1	
C212	ECEA1HUR47		Electrolytic AL,0.47MFD 50WV	1	
C213	YECQZ1H473K		Polyester, 0.047MFD 50WV	1	
C214	YESCC001		Ceramic, 0.1MFD 50WV	1	
C301	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C302	YEU05B221K		Ceramic, 220PF 50WV	1	
C303	YEU05B101K		Ceramic, 100PF 50WV	1	
C305	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C306	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C307	YEU05B221K		Ceramic, 220PF 50WV	1	
C308	ECEA1AU101		Electrolytic AL,100MFD 10WV	1	
C310	YEU05SL4R7K		Ceramic, 4.7MFD 50WV	1	
C311	YEU05SL220J		Ceramic, 22PF 50WV	1	
C312	ECEA1HUR47		Electrolytic AL,0.47MFD 50WV	1	
C313	YECQZ1H473K		Polyester, 0.047MFD 50WV	1	
C314	YESCC001		Ceramic, 0.1MFD 50WV	1	
C401	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C402	YEU05B221K		Ceramic, 220PF 50WV	1	
C403	YEU05B101K		Ceramic, 100PF 50WV	1	
C405	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C406	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C407	YEU05B221K		Ceramic, 220PF 50WV	1	
C408	ECEA1AU101		Electrolytic AL,100MFD 10WV	1	
C410	YEU05SL4R7K		Ceramic, 4.7MFD 50WV	1	
C411	YEU05SL220J		Ceramic, 22PF 50WV	1	
C412	ECEA1HUR47		Electrolytic AL,0.47MFD 50WV	1	
C413	YECQZ1H473K		Polyester, 0.047MFD 50WV	1	
C414	YESCC001		Ceramic, 0.1MFD 50WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C701	ECEA1CFS221		Electrolytic AL,220MFD 16WV	1	
C702	ECEA1CFS221		Electrolytic AL,220MFD 16WV	1	
C703	ECEA1HU100		Electrolytic AL,10MFD 50WV	1	
C704	ECEA1CU221		Electrolytic AL,220MFD 16WV	1	
C705	YESCC001		Ceramic, 0.1MFD 25WV	1	
C706	ECEA1CU221		Electrolytic AL,220MFD 16WV	1	
C707	YECQZ1H102K		Polyester, 0.001MFD 50WV	1	
C708	ECEA1CU101		Electrolytic AL,100MFD 16WV	1	
C709	ECEA1CU102		Electrolytic AL,1000MFD 16WV	1	
C710	ECEA1CU470		Electrolytic AL,47MFD 16WV	1	
C711	YESCC001		Ceramic, 0.1MFD 50WV	1	
C712	ECEA1EU471E		Electrolytic AL,470MFD 25WV	1	
C713	ECEA1EU221		Electrolytic AL,220MFD 25WV	1	
C714	YECQZ1H473K		Polyester, 0.047MFD 50WV	1	
C715	YECQZ1H473K		Polyester, 0.047MFD 50WV	1	
C716	YEU05B101K		Ceramic, 100PF 50WV	1	
C717	YEU05B101K		Ceramic, 100PF 50WV	1	
C718	YEU05B561K		Ceramic, 560PF 50WV	1	
C719	YEU05B561K		Ceramic, 560PF 50WV	1	
C720	YEU05B101K		Ceramic, 100PF 50WV	1	
C721	YEU05B101K		Ceramic, 100PF 50WV	1	
C723	ECEA1CU102		Electrolytic AL,1000MFD 16WV	1	
C730	ECUPF1C222M		Electrolytic AL,2200MFD 16WV	1	
C731	ECUPF1C222M		Electrolytic AL,2200MFD 16WV	1	
C732	YESCC001		Ceramic, 0.1MFD 50WV	1	
C733	ECUPF1V331M		Electrolytic AL,330MFD 35WV	1	
C734	ECUPF1V331M		Electrolytic AL,330MFD 35WV	1	
C735	YESCC001		Ceramic, 0.1MFD 50WV	1	
C736	YESCC001		Ceramic, 0.1MFD 50WV	1	
C737	YESCC001		Ceramic, 0.1MFD 50WV	1	
C738	YESCC001		Ceramic, 0.1MFD 50WV	1	
C739	ECLGQ1V332M		Electrolytic AL,3300MFD 35WV	1	
C740	ECLGQ1V332M		Electrolytic AL,3300MFD 35WV	1	
C741	ECLGQ1V332M		Electrolytic AL,3300MFD 35WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C742	ECEA1CU101		Electrolytic AL,100MFD 16WV	1	
C743	YESCC001		Ceramic, 0.1MFD 50WV	1	
C744	ECEA1CU100		Electrolytic AL,10MFD 16WV	1	
C745	YEU05SL470J		Ceramic, 47PF 50WV	1	
C746	YECCD1H181J		Ceramic, 180PF 50WV	1	
C747	ECEA1CU101		Electrolytic AL,100MFD 16WV	1	
C748	ECLGQ1V332M		Electrolytic AL,3300MFD 35WV	1	

RESISTORS

R101	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R103	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R104	ERD25TJ821		Carbon, 820 ohms 0.25W	1	
R105	ERD25TJ331		Carbon, 330 ohms 0.25W	1	
R107	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R110	ERD25TJ272		Carbon, 2.7k ohms 0.25W	1	
R111	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R112	ERD25TJ473		Carbon, 47k ohms 0.25W	1	
R113	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R114	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R115	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R116	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R117	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R118	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R119	ERD25TJ684		Carbon, 680k ohms 0.25W	1	
R120	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R121	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R122	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R123	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R124	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R125	ERGC33TR15K		Carbon, 0.15 ohms 3W	1	
R127	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R128	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R129	ERS01HJ100		Carbon, 10 ohms 1W	1	
R201	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R203	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R204	ERD25TJ821		Carbon, 820 ohms 0.25W	1	
R205	ERD25TJ331		Carbon, 330 ohms 0.25W	1	
R207	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R208	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R210	ERD25TJ272		Carbon, 2.7k ohms 0.25W	1	
R211	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R212	ERD25TJ473		Carbon, 47k ohms 0.25W	1	
R213	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R214	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R215	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R216	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R217	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R218	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R219	ERD25TJ684		Carbon, 680k ohms 0.25W	1	
R220	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R221	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R222	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R223	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R224	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R225	ERGC33TR15K		Carbon, 0.15 ohms 3W	1	
R227	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R228	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R229	ERS01HJ100		Carbon, 10 ohms 1W	1	
R301	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R303	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R304	ERD25TJ821		Carbon, 820 ohms 0.25W	1	
R305	ERD25TJ331		Carbon, 330 ohms 0.25W	1	
R307	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R310	ERD25TJ272		Carbon, 2.7k ohms 0.25W	1	
R311	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R312	ERD25TJ473		Carbon, 47k ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R313	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R314	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R315	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R316	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R317	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R318	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R319	ERD25TJ684		Carbon, 680k ohms 0.25W	1	
R320	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R321	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R322	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R323	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R324	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R325	ERG33TR15K		Carbon, 0.15 ohms 3W	1	
R327	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R328	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R329	ERS01HJ100		Carbon, 10 ohms 1W	1	
R401	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R403	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R404	ERD25TJ821		Carbon, 820 ohms 0.25W	1	
R405	ERD25TJ331		Carbon, 330 ohms 0.25W	1	
R407	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R408	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R410	ERD25TJ272		Carbon, 2.7k ohms 0.25W	1	
R411	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R412	ERD25TJ473		Carbon, 47k ohms 0.25W	1	
R413	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R414	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R415	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R416	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R417	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R418	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R419	ERD25TJ684		Carbon, 680k ohms 0.25W	1	
R420	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R421	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	

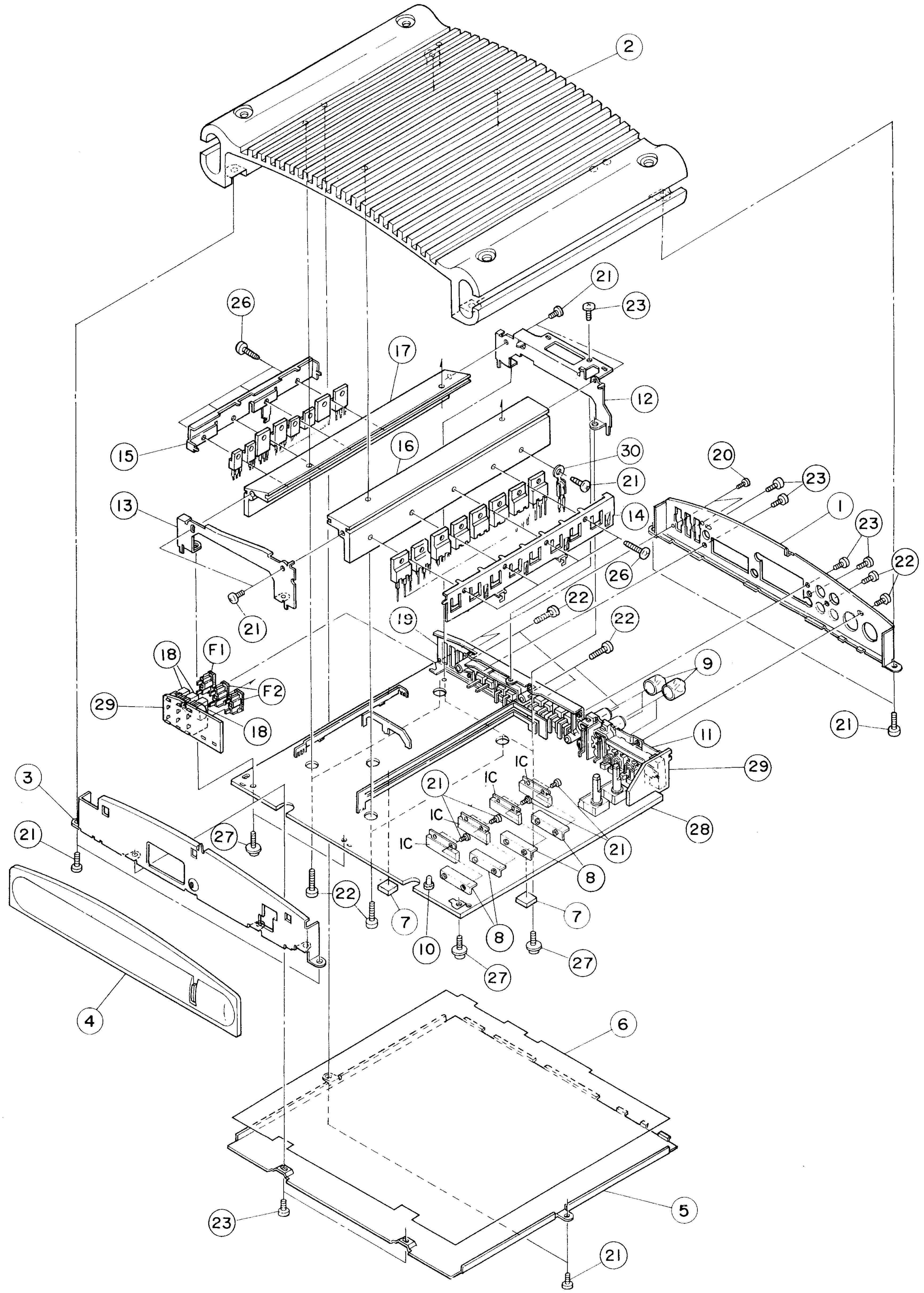
Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R422	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R423	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R424	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R425	ERGC33TR15K		Carbon, 0.15 ohms 3W	1	
R427	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R428	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R429	ERS01HJ100		Carbon, 10 ohms 1W	1	
R701	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R702	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R703	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R704	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R705	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R706	ERD25TJ472		Carbon, 4.7k ohms 0.25W	1	
R707	ERD25TJ822		Carbon, 8.2k ohms 0.25W	1	
R708	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R709	ERD25TJ104		Carbon, 100k ohms 0.25W	1	
R710	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R711	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R712	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R713	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R714	ERD25TJ104		Carbon, 100k ohms 0.25W	1	
R715	ERD25TJ683		Carbon, 68k ohms 0.25W	1	
R716	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R717	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R718	ERD25TJ474		Carbon, 470k ohms 0.25W	1	
R719	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R720	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R721	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R722	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R723	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R724	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R725	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R726	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R731	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R732	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R733	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R734	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R735	ERD25TJ563		Carbon, 56k ohms 0.25W	1	
R736	ERD25TJ563		Carbon, 56k ohms 0.25W	1	
R737	ERD25TJ472		Carbon, 4.7k ohms 0.25W	1	
R738	ERD25TJ472		Carbon, 4.7k ohms 0.25W	1	
R739	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R740	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R741	ERD25TJ391		Carbon, 390 ohms 0.25W	1	
R742	ERD25TJ391		Carbon, 390 ohms 0.25W	1	
R743	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R744	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R745	ERS01HJ100		Carbon, 10 ohms 1W	1	
R746	ERS01HJ100		Carbon, 10 ohms 1W	1	
R747	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R748	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R749	ERS01HJ100		Carbon, 10 ohms 1W	1	
R750	ERS01HJ100		Carbon, 10 ohms 1W	1	
R751	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R752	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R753	ERS01HJ100		Carbon, 10 ohms 1W	1	
R754	ERS01HJ100		Carbon, 10 ohms 1W	1	
R759	ERD25TJ152		Carbon, 1.5k ohms 0.25W	1	
R760	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R761	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R762	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R763	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R764	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R765	ERS02HJ391		Carbon, 390 ohms 2W	1	
R766	ERS02HJ391		Carbon, 390 ohms 2W	1	
R767	ERD25TJ471		Carbon, 470 ohms 0.25W	1	
R768	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R769	ERD25TJ334		Carbon, 330k ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R770	ERD25TJ225		Carbon, 2.2M ohms 0.25W	1	
R771	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R772	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R773	ERD25TJ333		Carbon, 33k ohms 0.25W	1	
R774	ERD25TJ104		Carbon, 100k ohms 0.25W	1	
VOLUME CONTROLS					
VR101/201	YESVR032		Level Adjust 5k ohms	1	
VR301/401	YESVR032		Level Adjust 5k ohms	1	
COILS & TRANFORMER					
L101, 201	YELQ12N055		RF Coil	2	
L301, 401	YELQ12N055		RF Coil	2	
L701	YETQ020F054A		Choke Coil	1	
L702	YELQ05N056		Choke Coil	1	
L703	YETQ030F101		Choke Coil	1	
L705, 706	YEAY027		Coil	2	
L708	YELQ05N056		Choke Coil	1	
J12	YELQ05N056		Choke Coil	1	
T701	YESAY01027		Transformer	1	
POSISTOR					
P0701	YESAQ02002		Posistor	1	
SWITCH					
SW101	YESAS081		Switch	1	

EXPLODED VIEW/AUFGELÖTE DARSTELLUNGS – MODEL CY-M1004EN

- Numbers in ○ are indicated REF. No. in the REPLACEMENT PARTS LIST.



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Replacement Parts List
Model NO. CY-M1004EN

NOTES :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice : Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Next to the Ref. No. in the parts list is a location key, to show the general location of the parts shown in the exploded drawing, as in a road map.
4. Printed circuit board assembly with mark (NI A) is no longer available after production discontinuation of the complete set.

MISCELLANEOUS

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
F1	YEAF01018		Fuse 3A (Plug in Fuse)	1	
F2	YEAF01022		Fuse 25A (Plug in Fuse)	1	
F3	YESAF01007		Fuse (Fusible Link)	1	
CN101	YESAE124		RCA 4P Jack	1	
CN102	YESAT01016		Speaker Terminal	1	
CN103	YESAE125		11P Connector	1	
CN701	YESAT01014		Power Terminal	1	
DIN101	YESAE121		DIN Connector (4ch/2ch)	2	
DIN301			DIN Connector (4ch/3ch MONO)		
1	YESFA08007		Back Plate	1	
2	YESFF01028		Heat Shink	1	
3	YESFA07002		Front Plate	1	
4	YESFC04011		Panel Assy	1	
5	YESFA05018		Under Cover	1	
6	YESFV01031		Insulator	1	
7	YESFS01059		Pad	2	
8	YESAT01012		Terminal	2	
9	YESFR04005		RCA Cap	4	
10	YEFK04404		LED Holder	1	
11	YESFX021049		Mounting Bracket for DIN	1	
12	YESFX021050		Mounting Bracket for PCB (A)	1	
13	YESFX021051		Mounting Bracket for PCB (B)	1	
14	YESFX021052		Mounting Bracket for TR (A)	1	
15	YESFX021058		Mounting Bracket for TR (B)	1	
16	YESFF01029		Heat Shink (A)	1	
17	YESFF01030		Heat Shink (B)	1	
18	YEFK02056		Fuse Holder	1	
19	YESFX021054		Mounting Bracket	1	
20	YESJT03021		Screw 2mmϕ×8mm (Black)	2	
21	YESJT03022		Screw 3mmϕ×6mm	19	
22	YEJS06027		Screw 3mmϕ×10mm (Black)	9	
23	YEJT03074		Screw 3mmϕ×6mm (Black)	6	
25	YESFF01021		Heat Shink	4	
26	YESJT03024		Screw 3mmϕ×12mm	8	
27	YEJT03073		Screw 3mmϕ×6mm	5	
28	YESAP129		PCB w/Component	1	NLA
29	YESAP130		PCB w/Component	1	NLA

PRINTING

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
	YEFM281784		Instruction Book	1	
	YEFM281820		Instruction Book	1	

WIRING KIT

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
1	YEAJ011181		Power Supply Cord (BATT)	1	
2	YEAJ02576		Power Ext, Cord w/Fuse	1	
3	YEAJ09230		Ground Lead (Black)	1	
4	YEAE011261		Spring Connector	1	
5	YBFR01015		Rubber Bush	1	
6	YEFA13925		Insulating Cover	1	
7	YESJT03026		Cup Tight Screw (M3×8)	2	

SUPPLIED HARDWARES

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
	XTN5+65AFZ		Screw 5mmϕ×65mm	4	
	XWE5E10FZ		Washer	4	

ICs & TRANSISTORS

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
IC101	YESAMM5218AP		IC	1	
IC102	YEAMUPC1270H		IC	1	
IC201	YESAMM5218AP		IC	1	
IC202	YEAMUPC1270H		IC	1	
IC301	YESAMM5218AP		IC	1	
IC302	YEAMUPC1270H		IC	1	
IC401	YESAMM5218AP		IC	1	
IC402	YEAMUPC1270H		IC	1	
IC701	YEAMUPC494C		IC	1	
Q101	YEAN2SD1020		Transistor	1	
Q102	YEAN2SC2785		Transistor	1	
Q103	YEAN2SD1020		Transistor	1	
Q104	YESAN2SA1672		Transistor	1	
Q105	YESAN2SC4387		Transistor	1	
Q201	YEAN2SD1020		Transistor	1	
Q202	YEAN2SC2785		Transistor	1	
Q203	YEAN2SD1020		Transistor	1	
Q204	YESAN2SA1672		Transistor	1	
Q205	YESAN2SC4387		Transistor	1	
Q301	YEAN2SD1020		Transistor	1	
Q302	YEAN2SC2785		Transistor	1	
Q303	YEAN2SD1020		Transistor	1	
Q304	YESAN2SA1672		Transistor	1	
Q305	YESAN2SC4387		Transistor	1	
Q401	YEAN2SD1020		Transistor	1	
Q402	YEAN2SC2785		Transistor	1	
Q403	YEAN2SD1020		Transistor	1	
Q404	YESAN2SA1672		Transistor	1	
Q405	YESAN2SC4387		Transistor	1	
Q701	YEAN2SB810		Transistor	1	
Q702	YEAN2SC2785		Transistor	1	
Q703	YEAN2SC2785		Transistor	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
Q704	YEAN2SA1175		Transistor	1	
Q705	YEAN2SC2785		Transistor	1	
Q706	YEAN2SA1175		Transistor	1	
Q708	YEAN2SA1175		Transistor	1	
Q709	YEAN2SA1175		Transistor	1	
Q710	YEAN2SA1175		Transistor	1	
Q711	YEAN2SA1175		Transistor	1	
Q712	YEAN2SC2785		Transistor	1	
Q713	YEAN2SC2785		Transistor	1	
Q714	YESAN2SC4024		Transistor	1	
Q715	YESAN2SC4024		Transistor	1	
Q716	YESAN2SC4503		Transistor	1	
Q717	YESAN2SC4503		Transistor	1	
Q718	YESAN2SC4503		Transistor	1	
Q719	YESAN2SC4503		Transistor	1	
Q722	YEAN2SC2785		Transistor	1	

DIODES

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
D101	MA165		Diode	1	
D102	MA165		Diode	1	
D201	MA165		Diode	1	
D202	MA165		Diode	1	
D301	MA165		Diode	1	
D302	MA165		Diode	1	
D401	MA165		Diode	1	
D402	MA165		Diode	1	
D701	YESADRD62ES		Diode	1	
D702	MA165		Diode	1	
D703	YESADRD220ES		Diode	1	
D704	YESADSLP981A		LED	1	
D706	YEADDSF10E		Diode	1	
D707	YEADDSF10E		Diode	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
D708	YEADU05B		Diode	1	
D709	YEADU05B		Diode	1	
D710	YESADRD160ES		Diode	1	
D711	YESADRD160ES		Diode	1	
D712	MA165		Diode	1	
D713	MA165		Diode	1	
D714	YEADFMU22R		Diode	1	
D715	YEADFMU22S		Diode	1	
D718	MA165		Diode	1	
D719	MA165		Diode	1	
D720	MA165		Diode	1	
D721	YEADRD56JB3		Diode	1	
D722	YESADRD91ES		Diode	1	
D723	MA165		Diode	1	
D724	MA165		Diode	1	

CAPACITORS

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C101	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C102	YEU05B221K		Ceramic, 220PF 50WV	1	
C103	YEU05B101K		Ceramic, 100PF 50WV	1	
C105	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C106	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C107	YEU05B221K		Ceramic, 220PF 50WV	1	
C108	ECEA1AU101		Electrolytic AL,100MFD 10WV	1	
C110	YEU05SL4R7K		Ceramic, 4.7MFD 50WV	1	
C111	YEU05SL220J		Ceramic, 22PF 50WV	1	
C112	ECEA1HUR47		Electrolytic AL,0.47MFD 50WV	1	
C113	YECQZ1H473K		Polyester, 0.047MFD 50WV	1	
C114	YESCC001		Ceramic, 0.1MFD 50WV	1	
C201	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C202	YEU05B221K		Ceramic, 220PF 50WV	1	
C203	YEU05B101K		Ceramic, 100PF 50WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C205	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C206	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C207	YEU05B221K		Ceramic, 220PF 50WV	1	
C208	ECEA1AU101		Electrolytic AL,100MFD 10WV	1	
C210	YEU05SL4R7K		Ceramic, 4.7MFD 50WV	1	
C211	YEU05SL220J		Ceramic, 22PF 50WV	1	
C212	ECEA1HUR47		Electrolytic AL,0.47MFD 50WV	1	
C213	YECQZ1H473K		Polyester, 0.047MFD 50WV	1	
C214	YESCC001		Ceramic, 0.1MFD 50WV	1	
C301	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C302	YEU05B221K		Ceramic, 220PF 50WV	1	
C303	YEU05B101K		Ceramic, 100PF 50WV	1	
C305	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C306	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C307	YEU05B221K		Ceramic, 220PF 50WV	1	
C308	ECEA1AU101		Electrolytic AL,100MFD 10WV	1	
C310	YEU05SL4R7K		Ceramic, 4.7MFD 50WV	1	
C311	YEU05SL220J		Ceramic, 22PF 50WV	1	
C312	ECEA1HUR47		Electrolytic AL,0.47MFD 50WV	1	
C313	YECQZ1H473K		Polyester, 0.047MFD 50WV	1	
C314	YESCC001		Ceramic, 0.1MFD WV	1	
C401	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C402	YEU05B221K		Ceramic, 220PF 50WV	1	
C403	YEU05B101K		Ceramic, 100PF 50WV	1	
C405	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C406	ECEA1CFS100		Electrolytic AL,10MFD 16WV	1	
C407	YEU05B221K		Ceramic, 220PF 50WV	1	
C408	ECEA1AU101		Electrolytic AL,100MFD 10WV	1	
C410	YEU05SL4R7K		Ceramic, 4.7MFD 50WV	1	
C411	YEU05SL220J		Ceramic, 22PF 50WV	1	
C412	ECEA1HUR47		Electrolytic AL,0.47MFD 50WV	1	
C413	YECQZ1H473K		Polyester, 0.047MFD 50WV	1	
C414	YESCC001		Ceramic, 0.1MFD 50WV	1	
C701	ECEA1CFS221		Electrolytic AL,220MFD 16WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C702	ECEA1CFS221		Electrolytic AL,220MFD 16WV	1	
C703	ECEA1HU100		Electrolytic AL,10MFD 50WV	1	
C704	ECEA1CU221		Electrolytic AL,220MFD 16WV	1	
C705	YESCC001		Ceramic, 0.1MFD 50WV	1	
C706	ECEA1CU221		Electrolytic AL,220MFD 16WV	1	
C707	YECQZ1H102K		Polyester, 0.001MFD 50WV	1	
C708	ECEA1CU101		Electrolytic AL,100MFD 16WV	1	
C709	ECEA1CU102		Electrolytic AL,1000MFD 16WV	1	
C710	ECEA1CU470		Electrolytic AL,47MFD 16WV	1	
C711	YESCC001		Ceramic, 0.1MFD 50WV	1	
C712	ECEA1EU471E		Electrolytic AL,470MFD 25WV	1	
C713	ECEA1EU221		Electrolytic AL,220MFD 25WV	1	
C714	YECQZ1H473K		Polyester, 0.047MFD 50WV	1	
C715	YECQZ1H473K		Polyester, 0.047MFD 50WV	1	
C716	YEU05B101K		Ceramic, 100PF 50WV	1	
C717	YEU05B101K		Ceramic, 100PF 50WV	1	
C718	YEU05B561K		Ceramic, 560PF 50WV	1	
C719	YEU05B561K		Ceramic, 560PF 50WV	1	
C720	YEU05B101K		Ceramic, 100PF 50WV	1	
C721	YEU05B101K		Ceramic, 100PF 50WV	1	
C723	ECEA1CU102		Electrolytic AL,1000MFD 16WV	1	
C730	ECUPF1C222M		Electrolytic AL,2200MFD 16WV	1	
C731	ECUPF1C222M		Electrolytic AL,2200MFD 16WV	1	
C732	YESCC001		Ceramic, 0.1MFD 50WV	1	
C733	ECUPF1H331M		Electrolytic AL,330MFD 50WV	1	
C734	ECUPF1H331M		Electrolytic AL,330MFD 50WV	1	
C735	YESCC001		Ceramic, 0.1MFD 50WV	1	
C736	YESCC001		Ceramic, 0.1MFD 50WV	1	
C737	YESCC001		Ceramic, 0.1MFD 50WV	1	
C738	YESCC001		Ceramic, 0.1MFD 50WV	1	
C739	ECLGQ1H332M		Electrolytic AL,3300MFD 50WV	1	
C740	ECLGQ1H332M		Electrolytic AL,3300MFD 50WV	1	
C741	ECLGQ1H332M		Electrolytic AL,3300MFD 50WV	1	
C742	ECEA1CU101		Electrolytic AL,100MFD 16WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C743	YESCC001		Ceramic, 0.1MFD 50WV	1	
C744	ECEA1CU100		Electrolytic AL,10MFD 16WV	1	
C745	YEU05SL470J		Ceramic, 47PF 50WV	1	
C746	YECCD1H561K		Ceramic, 560PF 50WV	1	
C747	ECEA1CU101		Electrolytic AL,100MFD 16WV	1	
C748	ECLGQ1H332M		Electrolytic AL,3300MFD 50WV	1	

RESISTORS

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R101	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R103	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R104	ERD25TJ821		Carbon, 820 ohms 0.25W	1	
R105	ERD25TJ331		Carbon, 330 ohms 0.25W	1	
R107	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R110	ERD25TJ272		Carbon, 2.7k ohms 0.25W	1	
R111	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R113	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R114	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R115	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R116	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R117	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R118	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R119	ERD25TJ684		Carbon, 680k ohms 0.25W	1	
R120	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R121	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R122	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R123	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R124	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R125	ERGC33TR15K		Carbon, 0.15 ohms 3W	1	
R127	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R128	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R129	ERF50MJ100		Carbon, 10 ohms 5W	1	
R201	ERD25TJ221		Carbon, 220 ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R203	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R204	ERD25TJ821		Carbon, 820 ohms 0.25W	1	
R205	ERD25TJ331		Carbon, 330 ohms 0.25W	1	
R207	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R208	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R210	ERD25TJ272		Carbon, 2.7k ohms 0.25W	1	
R211	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R213	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R214	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R215	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R216	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R217	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R218	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R219	ERD25TJ684		Carbon, 680k ohms 0.25W	1	
R220	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R221	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R222	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R223	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R224	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R225	ERGC33TR15K		Carbon, 0.15 ohms 3W	1	
R227	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R228	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R229	ERF50MJ100		Carbon, 10 ohms 5W	1	
R301	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R303	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R304	ERD25TJ821		Carbon, 820 ohms 0.25W	1	
R305	ERD25TJ331		Carbon, 330 ohms 0.25W	1	
R307	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R310	ERD25TJ272		Carbon, 2.7k ohms 0.25W	1	
R311	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R313	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R314	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R315	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R316	ERD25TJ102		Carbon, 1k ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R317	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R318	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R319	ERD25TJ684		Carbon, 680k ohms 0.25W	1	
R320	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R321	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R322	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R323	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R324	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R325	ERGC33TR15K		Carbon, 0.15 ohms 3W	1	
R327	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R328	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R329	ERF50MJ100		Carbon, 10 ohms 5W	1	
R401	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R403	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R404	ERD25TJ821		Carbon, 820 ohms 0.25W	1	
R405	ERD25TJ331		Carbon, 330 ohms 0.25W	1	
R407	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R408	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R410	ERD25TJ272		Carbon, 2.7k ohms 0.25W	1	
R411	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R413	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R414	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R415	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R416	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R417	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R418	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R419	ERD25TJ684		Carbon, 680k ohms 0.25W	1	
R420	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R421	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R422	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R423	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R424	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R425	ERGC33TR15K		Carbon, 0.15 ohms 3W	1	
R427	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R428	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R429	ERF50MJ100		Carbon, 10 ohms 0.5W	1	
R701	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R702	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R703	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R704	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R705	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R706	ERD25TJ472		Carbon, 4.7k ohms 0.25W	1	
R707	ERD25TJ822		Carbon, 8.2k ohms 0.25W	1	
R708	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R709	ERD25TJ104		Carbon, 100k ohms 0.25W	1	
R710	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R711	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R712	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R713	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R714	ERD25TJ104		Carbon, 100k ohms 0.25W	1	
R715	ERD25TJ683		Carbon, 68k ohms 0.25W	1	
R716	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R717	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R718	ERD25TJ474		Carbon, 470k ohms 0.25W	1	
R719	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R720	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R721	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R722	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R723	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R724	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R725	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R726	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R731	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R732	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R733	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R734	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R735	ERD25TJ563		Carbon, 56k ohms 0.25W	1	
R736	ERD25TJ563		Carbon, 56k ohms 0.25W	1	
R737	ERD25TJ472		Carbon, 4.7k ohms 0.25W	1	
R738	ERD25TJ472		Carbon, 4.7k ohms 0.25W	1	
R739	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R740	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R741	ERD25TJ391		Carbon, 390 ohms 0.25W	1	
R742	ERD25TJ391		Carbon, 390 ohms 0.25W	1	
R743	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R744	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R745	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R746	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R747	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R748	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R749	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R750	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R759	ERD25TJ152		Carbon, 1.5k ohms 0.25W	1	
R760	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R761	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R762	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R763	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R764	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R765	ERS02HJ821		Carbon, 220 ohms 2W	1	
R766	ERS02HJ821		Carbon, 220 ohms 2W	1	
R767	ERD25TJ471		Carbon, 470 ohms 0.25W	1	
R768	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R769	ERD25TJ334		Carbon, 330k ohms 0.25W	1	
R770	ERD25TJ225		Carbon, 2.2M ohms 0.25W	1	
R771	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R772	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R773	ERD25TJ333		Carbon, 33k ohms 0.25W	1	
R774	ERD25TJ104		Carbon, 100k ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R203	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R204	ERD25TJ821		Carbon, 820 ohms 0.25W	1	
R205	ERD25TJ331		Carbon, 330 ohms 0.25W	1	
R207	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R208	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R210	ERD25TJ272		Carbon, 2.7k ohms 0.25W	1	
R211	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R213	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R214	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R215	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R216	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R217	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R218	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R219	ERD25TJ684		Carbon, 680k ohms 0.25W	1	
R220	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R221	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R222	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R223	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R224	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R225	ERGC33TR15K		Carbon, 0.15 ohms 3W	1	
R227	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R228	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R229	ERF50MJ100		Carbon, 10 ohms 5W	1	
R301	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R303	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R304	ERD25TJ821		Carbon, 820 ohms 0.25W	1	
R305	ERD25TJ331		Carbon, 330 ohms 0.25W	1	
R307	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R310	ERD25TJ272		Carbon, 2.7k ohms 0.25W	1	
R311	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R313	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R314	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R315	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R316	ERD25TJ102		Carbon, 1k ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R317	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R318	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R319	ERD25TJ684		Carbon, 680k ohms 0.25W	1	
R320	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R321	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R322	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R323	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R324	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R325	ERGC33TR15K		Carbon, 0.15 ohms 3W	1	
R327	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R328	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R329	ERF50MJ100		Carbon, 10 ohms 5W	1	
R401	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R403	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R404	ERD25TJ821		Carbon, 820 ohms 0.25W	1	
R405	ERD25TJ331		Carbon, 330 ohms 0.25W	1	
R407	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R408	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R410	ERD25TJ272		Carbon, 2.7k ohms 0.25W	1	
R411	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R413	ERD25TJ221		Carbon, 220 ohms 0.25W	1	
R414	ERD25TJ123		Carbon, 12k ohms 0.25W	1	
R415	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R416	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R417	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R418	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R419	ERD25TJ684		Carbon, 680k ohms 0.25W	1	
R420	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R421	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R422	ERD25TJ5R6		Carbon, 5.6 ohms 0.25W	1	
R423	ERD25TJ153		Carbon, 15k ohms 0.25W	1	
R424	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R425	ERGC33TR15K		Carbon, 0.15 ohms 3W	1	
R427	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R428	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R429	ERF50MJ100		Carbon, 10 ohms 0.5W	1	
R701	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R702	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R703	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R704	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R705	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R706	ERD25TJ472		Carbon, 4.7k ohms 0.25W	1	
R707	ERD25TJ822		Carbon, 8.2k ohms 0.25W	1	
R708	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
R709	ERD25TJ104		Carbon, 100k ohms 0.25W	1	
R710	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R711	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R712	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R713	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R714	ERD25TJ104		Carbon, 100k ohms 0.25W	1	
R715	ERD25TJ683		Carbon, 68k ohms 0.25W	1	
R716	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R717	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R718	ERD25TJ474		Carbon, 470k ohms 0.25W	1	
R719	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R720	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R721	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R722	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R723	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R724	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R725	ERD25TJ223		Carbon, 22k ohms 0.25W	1	
R726	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R731	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R732	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R733	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R734	ERD25TJ561		Carbon, 560 ohms 0.25W	1	
R735	ERD25TJ563		Carbon, 56k ohms 0.25W	1	
R736	ERD25TJ563		Carbon, 56k ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R737	ERD25TJ472		Carbon, 4.7k ohms 0.25W	1	
R738	ERD25TJ472		Carbon, 4.7k ohms 0.25W	1	
R739	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R740	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R741	ERD25TJ391		Carbon, 390 ohms 0.25W	1	
R742	ERD25TJ391		Carbon, 390 ohms 0.25W	1	
R743	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R744	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R745	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R746	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R747	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R748	ERS01HJ1R0		Carbon, 1 ohm 1W	1	
R749	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R750	ERS01MJ5R6		Carbon, 5.6 ohms 1W	1	
R759	ERD25TJ152		Carbon, 1.5k ohms 0.25W	1	
R760	ERD25TJ562		Carbon, 5.6k ohms 0.25W	1	
R761	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R762	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R763	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R764	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R765	ERS02HJ821		Carbon, 220 ohms 2W	1	
R766	ERS02HJ821		Carbon, 220 ohms 2W	1	
R767	ERD25TJ471		Carbon, 470 ohms 0.25W	1	
R768	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R769	ERD25TJ334		Carbon, 330k ohms 0.25W	1	
R770	ERD25TJ225		Carbon, 2.2M ohms 0.25W	1	
R771	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R772	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R773	ERD25TJ333		Carbon, 33k ohms 0.25W	1	
R774	ERD25TJ104		Carbon, 100k ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
VOLUME CONTROLS					
VR101/201	YESVR032		Level Adjust 5k ohms	1	
VR301/401	YESVR032		Level Adjust 5k ohms	1	
COILS & TRANFORMER					
L101	YELQ12N055		RF Coil	1	
L201	YELQ12N055		RF Coil	1	
L301	YELQ12N055		RF Coil	1	
L401	YELQ12N055		RF Coil	1	
L701	YETQ020F054A		Choke Coil	1	
L702	YELQ05N056		Choke Coil	1	
L703	YETQ030F101		Choke Coil	1	
L704	YETQ030F101		Choke Coil	1	
L705	YEAY027		Coil	1	
L706	YEAY027		Coil	1	
L707, 708	YELQ05N056		Choke Coil	2	
T701	YESAY01028		Transformer	1	
POSISTOR					
P0701	YESAQ02002			1	
SWITCH					
SW101	YESAS081		Selector Switch	1	